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NINJATRADER 8 INDICATOR · NINJASCRIPT, C#

User Guide

A range-filter trend scored across ten confluence layers on closed bars, an anti-chop gate, pivot levels, a dashboard and a multi-timeframe strip, alerts, and series a strategy can read.

PRODUCT	FXB Confluence Engine for NinjaTrader 8
VERSION	1.0.0
DATE	November 2026
NINJATRADER	8.1.x Desktop, tested on 8.1.9.0
PACKAGE	`FxbConfluenceEngine.zip` , compiled NinjaScript Add-On
SHA-256	`3b7dc75f9bc48bac2d970b8924789049845556df3834711cd5fbffb3c96fae94`
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01

What it is

Chart indicator for NinjaTrader 8 Desktop (NinjaScript, C#). A range filter follows the price and turns up or down; each turn on a closed bar is a candidate signal. The signal is scored across ten layers: higher-timeframe bias, agreement of the 5, 15, 60 and 240 minute timeframes, a cross-check at sensitivity 12 and 16, EMA and momentum alignment, volatility, RSI, volume, VWAP and candle structure, less an anti-chop penalty. It prints as a BUY or SELL marker only when it passes the anti-chop gate (ADX, Choppiness Index, cooldown), the confirmations that are switched on and the Minimum Signal Strength.

It also draws the filter line with a four-layer band, two EMAs, trend-coloured bars and pivot levels in three formula families, and shows a dashboard and a multi-timeframe strip. It only draws and alerts: it never places, modifies or closes orders.

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Installation

Requirements

- NinjaTrader 8.1.x Desktop for Windows (tested on 8.1.9.0). Not for NinjaTrader 8.0 or NinjaTrader Web.
- A data connection that delivers minute bars with volume, and daily bars for the pivot levels. No Order Flow+ features, no depth, no tick history.

Import the Add-On package

1. Control Center > Tools > Import > NinjaScript Add-On.
2. Select `FxbConfluenceEngine.zip` and confirm. NinjaTrader compiles the assembly and reports that the import is complete.
3. No restart is needed. If a chart already had an older version, remove and re-add the indicator (a compile does not reload running instances).

Verify installation

1. Open a chart with at least 300 bars (a 5 to 60 minute interval is a good first look), press Ctrl+I.
2. In the Available list find **FXB Confluence Engine**, click add, click OK.
3. The first load takes longer than a single-series indicator, because seven more data series load with it: 1, 5, 15, 30, 60 and 240 minutes and Daily.
4. The chart shows trend-coloured candles, a purple filter line inside a faint band, a blue and an orange EMA, nine pivot lines with price labels, the dashboard in the top-right corner and the multi-timeframe strip at the bottom centre. BUY and SELL markers appear on the bars where a signal passed every gate; on a quiet stretch there can be none.
5. The NinjaScript Output window (New > NinjaScript Output) prints one line with the version and the number of bars on each series.

Uninstall / update

- Remove: Control Center > Tools > Remove NinjaScript Assembly > FXB Confluence Engine.
- Update: import the new zip over the installed version (NinjaTrader replaces the assembly), then remove and re-add the indicator on every chart that uses it, or reload the workspace.

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Quick start

First chart

1. Add **FXB Confluence Engine** to a chart (Ctrl+I). Leave every setting at its default: VWAP, candle pattern and EMA distance confirmation, the signal labels and the background tint are off.
2. Load at least 300 bars of the chart's interval. The slow EMA needs 200 bars before a signal can pass the EMA gate, and the volatility rank needs 60. A 5-day chart of 60-minute bars has too few: raise the days to load in the Data Series dialog.
3. A signal is decided when its bar closes. It appears at the first tick of the next bar.

Reading the chart

- **Filter line (purple)**: the range filter. It moves only when the price gets further from it than its range, ATR x multiplier x sensitivity / 8.
- **Band**: four layers either side of the line, out to one ATR times the multiplier. Green above the line in an up trend, red below it in a down trend, faint purple on the other side.
- **Bars**: painted with the filter's trend. Switch **Paint Bars** off for the chart's own candle colours.
- **EMA lines**: the fast EMA (blue, 60) and the slow EMA (orange, 200).
- **BUY / SELL**: a filter turn on a closed bar that passed every gate. The shape sits next to the bar and the word outside it. Markers never repaint.
- **Pivot levels**: the pivot (solid), R1, R2, S1, S2 (dashed) and R3, R4, S3, S4 (dotted), from the previous period. A resistance with the close above it and a support with the close below it change colour. A label stays inside the chart while the last bar is in view, and it steps aside when the dashboard would cover it.

Reading the dashboard

BLOCK	WHAT IT SAYS
TREND, HTF	the confirmed trend on this chart, and the higher-timeframe bias
PRICE, ATR	the last price, and the ATR as a percentage of it
SIGNAL QUALITY	the score as score/maximum and in a 14-cell bar. HIGH from 80 %, MED from 57 %, LOW from 43 %, WEAK below
SCORE BREAKDOWN	EMA + Mom /4, MTF /4, Sensitivity /3, HTF Bias /1, Volatility /2, RSI /1, Volume /1, VWAP /1, Candle /1, and a Chop Pen. of 0 to -2. A layer that is off reads `off` and leaves the maximum, which is 16 at the defaults
CONFIRMATIONS	the state of each gate. If Chop Gate reads BLOCKED, the ADX and Chop Idx rows name the filter that holds it, and Cooldown shows the bars left
MARKET DATA	both EMAs with a slope arrow, the nearest pivot support and resistance, VWAP, and the last closed day's range as a percentage of its average
SESSION	London, New York, LDN+NY, Asian or Off-Hours, and the ATR's rank over 60 bars
LAST SIGNAL	direction, bars ago, the score it had
TRADE STATUS	whether the last signal still agrees with the confirmed trend: ALIGNED or REVERSED. The line below it reads Trend supports LONG or SHORT while aligned, and Trend now BULLISH or BEARISH when reversed

The strip at the bottom has two blocks. **MTF** shows the trend on 1, 5, 15, 60 and 240 minutes, each from its last closed bar. The dimmed 1-minute cell is for information and does not enter the score. These slots are fixed, so on a 4-hour chart they are all lower timeframes; HTF Bias is the row that looks up. **SENS** shows the same filter at sensitivity 3, 5, your setting, 12 and 16. The cell between the blocks holds the MTF and Sensitivity scores. While a bar is forming, the 12 and 16 cells follow the live price and the score uses their values on the last closed bar, so they can disagree for that moment.

Settings to try first

SETTING	WHAT IT CHANGES
Sensitivity	The filter's range: ATR x multiplier x sensitivity / 8. Lower turns more often, higher less often.
HTF Timeframe	The timeframe of the HTF Bias layer.
Minimum Signal Strength	Signals scoring below it are suppressed.
Only show signals when EMA aligned	A gate on the signal: both EMAs, the price and the fast EMA's slope must agree with it.
Pivot Timeframe / Pivot Formula	Daily, Weekly, Monthly or an intraday period; Classic, Fibonacci or Camarilla.
Signal Marker Style	Diamond, Triangle, Arrow or Text Only.
Chart Background	The Light palette for a light chart.

Alerts

Off by default. Switch **11 Alerts > Enable Alerts** on, then choose the families: signals, strong signals, EMA-confirmed signals, trend change, chop gate, HTF bias, RSI extremes, volume spike, score threshold and trade invalidated. Only **Alert: Signals** is on at first. Every alert shows in the Alerts Log window and in the Output window, with sound and e-mail if you switch them on. They fire on closed bars in realtime, once per kind and bar, and never for a bar older than two bar periods. There is no webhook.

What it does not do

It places no orders. It describes the bars on the chart; it does not forecast where price goes next, and the TRADE STATUS lines are descriptions of the indicator's state, not trade advice.

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Calculate mode and bar timing

- Default `Calculate.OnBarClose`: one commit per closed bar, at the first tick of the next bar.
- `OnEachTick` / `OnPriceChange`: the closed bar is committed at the first tick of the next bar, and the forming bar is previewed on every tick. A preview changes no state, so the committed values are the same in every mode.
- Signals, alerts and the `Signal` series exist on closed bars only and do not repaint. The filter line, the band and the bar colour of a forming bar follow its price until it closes, by design.
- A higher-timeframe value reaches a chart bar only after the higher-timeframe bar has ended. A forming chart bar reads the last ended bar of each timeframe. A daily bar ends at its session end, not at the midnight it is stamped with.
- Pivot levels come from the previous period's high, low and close and stay fixed for the period.
- A still-forming last historical bar is previewed and committed when it closes. On a closed market the session's last bar therefore commits, and shows its signal if it has one, at the first tick after the reopen.
- A bar's OPEN time is its NinjaTrader close time minus the bar period, and never before the previous bar's end. The session rows read it, converted from the time zone in Tools > Options > General.

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Outputs for strategies and the Market Analyzer

PLOT / SERIES	VALUES
`EmaFast` (plot 0)	the fast EMA, on the bars it has a value and while Show EMA Lines is on
`EmaSlow` (plot 1)	the slow EMA, likewise
`RangeFilter` (plot 2)	the filter line, while Show Range Filter Line is on
`SignalStrength` (plot 3, hidden)	the score after the chop penalty, 0 to the bar's maximum (16 at the defaults, at most 18)
`Signal` (plot 4, hidden)	+1 on the closed bar of a long signal, -1 on the closed bar of a short signal, otherwise 0
`Trend` (plot 5, hidden)	the confirmed trend: +1 bullish, -1 bearish, 0 before it is known

The hidden plots are Transparent and appear in the Data Box. A strategy or a Market Analyzer column reads them like any plot. A strategy that calls the indicator has to add the same seven secondary series itself, in `State.Configure`.

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Parameters

Groups 01 to 09 hold the 46 inputs of the other editions with their titles, order, defaults and ranges (the group names carry a number prefix because NinjaTrader sorts groups alphabetically). HTF Timeframe and Pivot Timeframe choose from the timeframes this edition loads. Group 10 Chart holds the bar paint switch, the marker style, the visual history limit and the two broken-level colours; group 11 Alerts holds the master switch, the ten alert families and the log, sound and e-mail channels; group 12 NinjaTrader holds the two diagnostic switches.

GROUP	PARAMETER	TYPE	DEFAULT	RANGE	PROPERTY	NOTES
01 Pivot Levels	Show Pivot Levels	bool	true		`ShowPivots`	Draws the pivot lines and labels. Off also empties the levels the dashboard reads: Near Sup and Near Res show a dash.
01 Pivot Levels	Pivot Timeframe	FxbPivotTimeframe	Daily		`PivotTf`	The period whose previous high, low and close the levels come from. Weekly and Monthly are built from the daily bars.
01 Pivot Levels	Pivot Formula	FxbPivotFormula	Classic		`PivotType`	Classic, Fibonacci or Camarilla.
01 Pivot Levels	Show Pivot Labels	bool	true		`PivotLabels`	Draws a price label on each level.
01 Pivot Levels	Extend Lines Left (bars)	int	100	0,int.MaxValue	`PivotExtendLeft`	How many bars to the left of the period's first bar the lines start.
02 Core	Sensitivity	int	6	1 to 30	`Sensitivity`	Scales the range filter: its range is ATR x multiplier x sensitivity / 8, so 8 is the neutral value and higher values make the filter slower.
02 Core	ATR Length	int	14	1 to 50	`AtrLen`	Length of the ATR behind the range filter and the band.
02 Core	ATR Multiplier	double	0.8	0.1,double.MaxValue	`AtrMult`	ATR multiple of the range filter's range, and the width of the band.
03 Higher Timeframe	HTF Timeframe	FxbHtfTimeframe	Minute30		`Htf`	The timeframe of the HTF Bias layer: the range filter's trend on its last closed bar.

GROUP	PARAMETER	TYPE	DEFAULT	RANGE	PROPERTY	NOTES
03 Higher Timeframe	HTF MA Length	int	90	5,int.MaxValue	`HtfMaLen`	Kept so the settings match the other editions. The calculation does not read it.
04 EMA Overlay	Show EMA Lines	bool	true		`ShowEma`	Draws the two EMA plots. Drawing only: the EMA layer of the score keeps working.
04 EMA Overlay	Fast EMA	int	60	2,int.MaxValue	`EmaFastLen`	Length of the fast EMA.
04 EMA Overlay	Slow EMA	int	200	5,int.MaxValue	`EmaSlowLen`	Length of the slow EMA.
05 Anti-Chop Filters	Enable ADX Filter	bool	true		`UseAdx`	A signal needs the ADX at or above the threshold. When it is under, the score also takes a penalty of 1.
05 Anti-Chop Filters	ADX Length	int	14	5 to 50	`AdxLen`	Length of the ADX.
05 Anti-Chop Filters	ADX Threshold	double	20.0	10.0 to 40.0	`AdxThresh`	The ADX level the filter asks for. 20 is moderate, 25 strict.
05 Anti-Chop Filters	Enable Choppiness Index Filter	bool	true		`UseChop`	A signal needs the Choppiness Index at or below the maximum. When it is over, the score also takes a penalty of 1.
05 Anti-Chop Filters	Choppiness Length	int	14	5 to 50	`ChopLen`	Length of the Choppiness Index.
05 Anti-Chop Filters	Choppiness Max	double	61.8	40.0 to 80.0	`ChopThresh`	The highest Choppiness Index the filter accepts. Lower is stricter.
05 Anti-Chop Filters	Enable Signal Cooldown	bool	true		`UseCooldown`	Keeps a minimum number of bars between signals.
05 Anti-Chop Filters	Cooldown Bars	int	5	1 to 50	`CooldownLen`	Minimum bars between signals. The bar right after a signal already reads 1.
06 Signal Confirmation	Enable RSI Confirmation	bool	true		`UseRsi`	A signal needs the RSI on the right side of its level, and the RSI layer scores 1 when it is.
06 Signal Confirmation	RSI Length	int	14	5 to 50	`RsiLen`	Length of the RSI.
06 Signal Confirmation	RSI Min for Longs	double	50.0	30.0 to 70.0	`RsiBullMin`	The RSI a long signal needs at least.
06 Signal Confirmation	RSI Max for Shorts	double	50.0	30.0 to 70.0	`RsiBearMax`	The RSI a short signal needs at most.
06 Signal Confirmation	RSI Overbought Level	double	70.0	60.0 to 90.0	`RsiOb`	From this level the dashboard prints OB and the RSI alert family fires.
06 Signal Confirmation	RSI Oversold Level	double	30.0	10.0 to 40.0	`RsiOs`	Down to this level the dashboard prints OS and the RSI alert family fires.

GROUP	PARAMETER	TYPE	DEFAULT	RANGE	PROPERTY	NOTES
06 Signal Confirmation	Enable Volume Confirmation	bool	true		`UseVolConf`	A signal needs the bar's volume at or above its average times the multiplier. Needs a data feed with volume.
06 Signal Confirmation	Volume MA Length	int	20	5 to 100	`VolMaLen`	Length of the volume average.
06 Signal Confirmation	Volume Threshold Multiplier	double	1.0	0.5 to 3.0	`VolMult`	The multiple of the volume average the filter asks for.
06 Signal Confirmation	Enable VWAP Confirmation	bool	false		`UseVwap`	A long needs the close above the session VWAP, a short below it. Needs a data feed with volume and daily bars.
06 Signal Confirmation	Enable Candle Pattern Confirmation	bool	false		`UseEngulf`	A signal needs an engulfing or a strong-bodied candle in its direction.
06 Signal Confirmation	Enable EMA Distance Filter	bool	false		`UseEmaDist`	Blocks a signal when the close is too far from the fast EMA.
06 Signal Confirmation	Max EMA Distance (ATR mult)	double	2.0	0.5 to 5.0	`EmaDistMax`	The largest distance from the fast EMA the filter accepts, in ATRs.
06 Signal Confirmation	Minimum Signal Strength	int	8	0 to 20	`MinScore`	Signals scoring below this are suppressed.
07 Display	Show LONG/SHORT Labels	bool	false		`ShowLabels`	Adds a label with the score at each signal. Drawing only.
07 Display	Show Signal Arrows	bool	true		`ShowArrows`	Draws the BUY and SELL markers. Drawing only: the signals, the alerts and the Signal series are unchanged.
07 Display	Show Range Filter Line	bool	true		`ShowFilter`	Draws the filter line. Drawing only.
07 Display	Show Trailing Band	bool	true		`ShowTrail`	Draws the four-layer band around the filter line. Drawing only.
07 Display	Show Background Tint	bool	false		`ShowBg`	Tints each bar's background with the trend colour. Drawing only.
07 Display	Only show signals when EMA aligned	bool	true		`EmaFilter`	A gate on the signal, not only on the display: a signal needs the two EMAs, the price and the EMA's slope aligned with it.
08 Dashboard	Show Dashboard	bool	true		`ShowDash`	Draws the main panel.
08 Dashboard	Dashboard Position	FxbDashPosition	Right		`DashX`	The top corner the panel sits in.

GROUP	PARAMETER	TYPE	DEFAULT	RANGE	PROPERTY	NOTES
08 Dashboard	Dashboard Text Size	FxbDashTextSize	Small		`DashSize`	Text size of the panel's values.
08 Dashboard	Show Bottom Strip (MTF + Sensitivity)	bool	true		`ShowBtm`	Draws the strip at the bottom of the chart: the trend on 1, 5, 15, 60 and 240 minutes, and at five sensitivities.
09 Theme	Chart Background	FxbChartTheme	Dark		`Theme`	The palette of everything the indicator draws. Cosmetic: it moves no computed value.
10 Chart	Paint Bars	bool	true		`PaintBars`	Colours every bar with the trend. Off leaves the chart's own candle colours.
10 Chart	Signal Marker Style	FxbMarkerStyle	Diamond		`Marker`	The shape beside the word BUY or SELL. Text Only draws the word alone.
10 Chart	Max Visual History (0 = all)	int	0	0,int.MaxValue	`MaxVisualHistory`	How many bars back the band, the markers and the labels are drawn. 0 draws them over the whole history.
10 Chart	Broken Resistance Colour	colour	#00FF9D		`BrokenResBrush`	A resistance level with the close above it.
10 Chart	Broken Support Colour	colour	#FF4D6D		`BrokenSupBrush`	A support level with the close below it.
11 Alerts	Enable Alerts	bool	false		`AlertsMaster`	Master switch, off by default. Alerts fire on closed bars in realtime only, once per kind and bar.
11 Alerts	Alert: Signals	bool	true		`AlertSignals`	A confirmed long or short signal.
11 Alerts	Alert: Strong Signals	bool	false		`AlertStrong`	A signal whose quality is 80 % or more.
11 Alerts	Alert: EMA-Confirmed	bool	false		`AlertEmaConfirmed`	A signal on a bar with full EMA alignment.
11 Alerts	Alert: Trend Change	bool	false		`AlertTrendChange`	The confirmed trend turning bullish or bearish.
11 Alerts	Alert: Chop Gate	bool	false		`AlertChopGate`	The anti-chop gate opening or closing.
11 Alerts	Alert: HTF Bias	bool	false		`AlertHtfBias`	The higher-timeframe bias turning.
11 Alerts	Alert: RSI Extremes	bool	false		`AlertRsi`	RSI overbought or oversold.
11 Alerts	Alert: Volume Spike	bool	false		`AlertVolSpike`	Volume at twice its average.
11 Alerts	Alert: Score Threshold	bool	false		`AlertScore`	The score crossing Minimum Signal Strength in either direction.
11 Alerts	Alert: Trade Invalidated	bool	false		`AlertInvalidated`	The trend reversing against the last signal.
11 Alerts	Alert Sound	bool	false		`AlertSound`	Plays a sound with each alert.

GROUP	PARAMETER	TYPE	DEFAULT	RANGE	PROPERTY	NOTES
11 Alerts	Alert Sound File	string	"Alert2.wav"		`AlertSoundFile`	A file name inside the NinjaTrader sounds folder, for example Alert2.wav, or the full path to a .wav file. Blank plays Alert2.wav.
11 Alerts	Alert Log Line	bool	true		`AlertLogLine`	Writes each alert to the NinjaScript Output window. Every alert also appears in the Alerts Log window.
11 Alerts	Alert E-mail	bool	false		`AlertEmail`	Sends each alert by e-mail through the Mail share service configured in NinjaTrader (Tools > Options > Share).
11 Alerts	E-mail To	string	""		`EmailTo`	Recipient address for alert e-mails. Blank sends none.
12 NinjaTrader	Debug Mode	bool	false		`DebugMode`	Writes diagnostics to fxb_nt_debug.log in the NinjaTrader 8 folder.
12 NinjaTrader	Dump Bars + Outputs CSV	bool	false		`DebugDumpCsv`	Writes every committed bar with the engine outputs to fxb_dump_<instrument>_<period>.csv and the other timeframes' bars to a folder beside it (parity checks).

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07

Sessions, time and volume

Sessions

The chart's Trading Hours template decides which bars exist. With an ETH template (for example `CME US Index Futures ETH`) the overnight bars feed the filter and the averages; with an RTH template they do not. Both are valid, and the signals differ, as they do for any indicator. State the template when comparing values across machines.

The 5, 15, 30 and 60 minute series follow the chart's template and loading range. The 1 minute, 240 minute and Daily series load a fixed bar count and use NinjaTrader's default template for the instrument.

The SESSION row

The row reads fixed wall-clock windows, each in its own time zone with daylight saving handled: London 08:00 to 16:00, New York 09:30 to 16:00, Tokyo 00:00 to 09:00. A bar counts when its open falls inside the window. London and New York together print LDN+NY, and a bar in no window prints Off-Hours. There is no weekday rule: a Friday evening bar in New York is already Saturday morning in Tokyo, and it counts as Asian. The row is information only and does not enter the score.

These windows have nothing to do with the instrument's trading hours. On a CME future the row still names the FX sessions.

Time stamps

NinjaTrader stamps a bar with its CLOSE time in the time zone chosen in Tools > Options > General. The indicator reconstructs the open as the close minus the bar period, and never before the previous bar's end, which matters for a bar shortened by the session end.

A higher-timeframe bar reaches the chart only after it has ended:

- a minute bar ends at its stamp, including a bar cut short at the session end;
- a daily bar is stamped with its trading date at midnight, before that session has finished, so it counts as ended at its session end.

Daily bars and pivot levels

Daily bars come from the data connection. A daily bar built during your session comes from the ticks, and after a reload the same day comes from the connection's daily data, whose close can be the settlement price. The pivot levels and the ATR use the close, so on a future they can move by a small amount after a reload. Weekly and monthly pivots are built from the daily bars: a calendar week from Monday to Sunday of the trading date, or a calendar month.

Volume

Volume on a futures chart is real contract volume. Three things read it: the Volume layer (the bar's volume at or above its average times the multiplier), the volume-spike alert (twice the average) and VWAP.

VWAP restarts at the first chart bar of each daily bar and uses the typical price of each bar, so it is an estimate from bars and not from ticks. On a feed with no volume at all it reads N/A. The Volume layer then compares 0 with an average of 0, which passes, so it reads Above Avg and scores 1, and the volume-spike alert would fire on every bar: switch **Enable Volume Confirmation** off on such a feed.

Contract rollover

A continuous contract (merge policy `MergeBackAdjusted` or `MergeNonBackAdjusted` in the Data Series dialog) shows a price jump at the roll unless back-adjusted. A jump moves the filter, the ATR and the pivot levels of that period. State the merge policy when comparing values across machines.

08

Compatibility

ITEM	STATUS
NinjaTrader version	8.1.x Desktop (tested 8.1.9.0). Not 8.0, not NinjaTrader Web or mobile.
Product type	Indicator, price panel overlay, with seven secondary data series of the chart's instrument.
Instruments	Any instrument with minute bars, daily bars and volume: futures, micro futures, forex, stocks. Verified on MNQ (CME) 1-minute.
Bar types	Time-based (second, minute, day, week, month). Tick, volume, range, Renko and other non-time bars also run: the other timeframes are read as of each bar's close. The default settings were designed on minute charts from 5 minutes to 4 hours.
Calculate modes	OnBarClose (default), OnEachTick, OnPriceChange. The committed values are the same in every mode.
Multi-instance	Yes. Every instance paints its own surface and loads its own series.
Timeframes it reads	1, 5, 15, 30, 60 and 240 minutes and Daily, always. HTF Timeframe chooses among these. Pivot Timeframe chooses among these and Weekly and Monthly, which are built from the daily bars. Other periods are not offered, because a series added from a user input is not supported by NinjaTrader.
How much history they load	5, 15, 30 and 60 minutes follow the chart's own loading range. 1 minute loads 10,000 bars, 240 minutes 1,000 and Daily 2,000, whatever the chart loads.
Market Analyzer	The plots are available as columns; the hidden `SignalStrength`, `Signal` and `Trend` are the useful ones. A column loads the seven series as well. Not advertised as a scanner.
Strategies	A strategy can read the plots. It has to add the same seven secondary series itself in `State.Configure`. The indicator places no orders.
Data requirements	Minute and daily bars with volume. Without daily bars there are no pivot levels, no VWAP session reset and no Day Rng %. Without volume VWAP reads N/A.
Rendering	SharpDX in `OnRender` with DPI scaling and full resource cleanup on render-target change and termination. No draw objects.
Templates and workspaces	All settings serialize (colours through the standard brush serializer).
Network	None of its own. E-mail alerts go through NinjaTrader's Mail share service. There is no webhook.

ITEM	STATUS
Order handling	None. The indicator never touches orders, positions or accounts.

09

Troubleshooting

SYMPTOM	CAUSE AND FIX
Nothing on the chart	Check that the licence is active for your NinjaTrader login and that the indicator is in the Configured list (Ctrl+I). It paints in the price panel.
No BUY or SELL markers	Usually the gates at work. Read the dashboard's CONFIRMATIONS block: if Chop Gate reads BLOCKED, the ADX and Chop Idx rows name the filter. Also needed: at least 300 bars on the chart for the slow EMA and the volatility rank, and a score of at least Minimum Signal Strength.
A signal appears one bar late	A signal is decided when its bar closes, so it appears at the first tick of the next bar. On a closed market the session's last bar waits for the reopen.
The filter line or a bar colour changes while a bar forms	With OnEachTick or OnPriceChange the forming bar follows its price until it closes. The markers do not move.
The bars look faint	The bar colours are translucent by design. Switch **10 Chart > Paint Bars** off for the chart's own colours.
A strip cell reads a down arrow on a new chart	A series without enough bars yet reads as not up. The 5, 15, 30 and 60 minute series follow the chart's loading range; load more days. The Output window prints the bar count of each series at load.
No pivot levels, or Day Rng % stays at 0	The levels and the day's range need daily bars from the data connection. The Output window prints a line if the Daily series has none. Day Rng % also needs 15 daily bars. Near Sup and Near Res show a dash when Show Pivot Levels is off.
Near Sup and Near Res show the same price	Those two rows print two decimals. On an instrument quoted to more decimals (6E, for example) the pivot labels on the chart have the full price.
VWAP reads N/A, or Volume always reads Above Avg	The feed carries no volume, see the sessions and volume chapter. Switch **Enable Volume Confirmation** off on such a feed.
Values differ from another platform or another machine	Bars differ by feed and session template, and a reload moves the first bar of the loaded range; compare on identical bars (see the chapter on how this edition was verified).
The chart is slow to load	Seven more data series load with the indicator, and the first load downloads them. Lowering the chart's days to load shortens the 5 to 60 minute series.
No alerts	**11 Alerts > Enable Alerts** is off by default, and of the families only **Alert: Signals** starts on. Alerts fire in realtime on closed bars, never for a bar older than two bar periods.
No alert sound	Switch **Alert Sound** on. **Alert Sound File** takes a name inside the NinjaTrader sounds folder or a full path.
No alert e-mail	Switch **Alert E-mail** on, fill in **E-mail To**, and configure the Mail share service in Tools > Options > Share.

SYMPTOM	CAUSE AND FIX
I need a webhook	There is none: the indicator makes no network call of its own.
Text is tiny or huge	Sizes follow the Windows display scaling and **Dashboard Text Size**.
An error line names FXB Confluence Engine in the Log tab	Set **12 NinjaTrader > Debug Mode** on, reproduce it, and send `Documents\NinjaTrader 8\fxb_nt_debug.log` with the chart interval, instrument and NinjaTrader version.
Two dashboards on one chart	Two instances are configured (Ctrl+I, Configured list). Remove one.

A daily row, a VWAP or a previous-day level looks wrong or stops updating

NinjaTrader can keep using an older copy of its daily or minute history on your PC, and reloading the chart does not refresh it. Open **Control Center > Tools > Historical Data**, expand **Download**, pick the instrument, select **Day**, set the dates to cover the missing days and press **Download**. Do the same with **Minute** if intraday bars are missing, then reload the chart.

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How this edition was verified

The verification has two stages, which measure different things and are reported separately.

Stage 1: the engine

The platform-free engine that ships here is the same code as the cTrader edition's engine apart from its namespace line and five printed dashboard texts, which no calculation reads. That engine was replayed bar by bar there: 6,922,033 comparisons across 16 runs on 20,849 identical EURUSD M5 bars, 135 internal series in seven runs and nine input sweeps, 0 mismatches. The first 300 bars are a warm-up and are not compared. The 1-minute trend and the count built on it were held out of that figure, because 1-minute history did not cover the whole window; they drive one display cell and enter no score.

Stage 2: NinjaTrader host vs the engine on identical NinjaTrader bars (2 November 2026)

With **Dump Bars + Outputs CSV** on, the indicator writes the bars it saw (time, open, high, low, close, volume) together with every engine output as the host received it, and the bars of the other timeframes into a folder beside it. The same bars are replayed through a build of the identical engine outside NinjaTrader, with no host in between, and every column is compared.

RUN	BARS	SERIES	CELLS	MISMATCHES
MNQ 1 Minute, historical load	4,923	138	679,374	0
MNQ 1 Minute, across the switch from history to live bars, Calculate = OnEachTick	4,213	138	581,394	0

Both runs found 0 bar-identity mismatches. The live run had about 20 bars closing live.

Complete daily data, 2 Nov 2026: after the daily and minute history were downloaded, a further live run had no holes (5,371 bars, 27 October to 2 November) and the daily series delivered new bars for 26 to 30 October: 138 series, 741,198 cells, 0 mismatches, 0 bar-identity mismatches. The session VWAP restarted on each daily bar on that run.

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Licensing

License model

The product is distributed as a compiled NinjaScript Add-On and licensed through NinjaTrader's user-based Vendor Licensing (NinjaTrader 8.1.5.0 or later). A licence is tied to the customer's NinjaTrader account login, not to a machine: the same login works on every installation of NinjaTrader Desktop the customer uses, and no Machine ID has to be sent to the vendor. Licences are created in the NinjaTrader Ecosystem Vendor Dashboard against the customer's NinjaTrader account email address, with a licence type and an expiry date.

The indicator carries the `VendorLicense(productId)` call in its constructor, with the Product ID of its add-on in the Vendor Dashboard. NinjaTrader verifies the licence whenever the indicator is used.

No free trial

The product is sold as a paid licence only; no free trial is offered. A licence is issued to the buyer's NinjaTrader account email after payment, normally within a few hours.

Activation and transfer

Nothing to activate: log in to NinjaTrader with the licensed account. A new PC needs no transfer. NinjaTrader allows two simultaneous market-data sessions per account, which is what prevents a licence from being shared.

Behavior without a valid licence

NinjaTrader shows its own licence notice (invalid or expired) and stops calling the indicator's calculation and plot methods: the indicator draws nothing and raises no alerts, while its settings still load. It never places orders (it has no order code) and exposes no proprietary data. A licensing-server outage is handled by NinjaTrader's verification (it retries against a secondary server) and must never crash the chart.

Licensing is a practical access-control layer, not a guarantee against copying.

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Support

Questions go through the contact page at https://kestutisbalciunas.com/contact/ with the NinjaTrader version, the instrument and the chart interval. For an error, switch **12 NinjaTrader > Debug Mode** on, reproduce it once and attach `fxb_nt_debug.log` from the `Documents/NinjaTrader 8` folder; switch Debug Mode off afterwards.

The product page, with the documentation and the change log, is https://kestutisbalciunas.com/ninjatrader/fxb-confluence-engine/. Updates and refunds follow the terms on that page.

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Risk disclosure

Trading involves substantial risk. Past, simulated, and backtested performance is not necessarily indicative of future results.

Futures, foreign currency and options trading contains substantial risk and is not for every investor. An investor could potentially lose all or more than the initial investment. Risk capital is money that can be lost without jeopardizing one's financial security or lifestyle. Only risk capital should be used for trading and only those with sufficient risk capital should consider trading.

FXB Confluence Engine is a technical analysis tool. It computes a trend, a score and levels from historical bars and raises alerts; it does not place, modify or close orders and it gives no trade advice. The score, the HIGH, MED, LOW and WEAK bands and the TRADE STATUS lines describe the state of the indicator on the bars of the chart; they are descriptions, not probabilities, forecasts or instructions. Nothing in the software or its documentation is a promise of returns, win rates or funded-account success.

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