

MULTI-PURPOSE TIMECODE PROCESSOR

LTC Management, Monitoring, Distribution, Conversion, Regeneration Analog/Ethernet. SMPTE/RTP MIDI/MIDI. Source/output selection. Remote triggering. Regeneration. Protocol conversion. RGB Clock display. LTC waveform analysis, Network and Analog distribution.



CodeCommander listens to multiple timecode sources simultaneously. A user-designated primary stream is regenerated, synced and output. This primary stream is converted to every supported protocol, providing clean, reliable timecode from all output ports.

CONNECT WITH UNLIMITED CODEBRIDGES™ OR CODECOMMANDERS™ FOR A RELIABLE, MULTI-PORT LTC NETWORK

Fully compatible with industry standard timecode protocols:

- SMPTE timecode (LTC) via balanced XLR, TRS, CPC, or DB-25
- RTP MIDI via Ethernet
- MIDI timecode (MTC) via USB-C and DIN-5
- MIDI Machine Control messages
- Flywheel Generator Mode

Convert and distribute the primary timecode source over up to 12 balanced LTC outputs

- 4x XLR3 outputs built-in (base model)
- Optional extra panel with 8 outputs. With DB-25, CPC, TRS or GENLOCK connector options
- Remote access and screen-mirroring via built-in Web Browser
- Signal shape regeneration and jitter reduction

Worldwide Exclusive Distribution

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New York
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tmb
www.ProPlex.com

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Beijing
+86 10.8492.1587

Riga
+371 6389 8886

- Output level adjustment up to +9dBu (independent for XLR and optional panels)
- 4 user-configurable preset buttons which trigger source selection modes
 - * Automatic (default) - the primary source selection is automatic
 - * Priority – force a specific source priority list which behave as automatic backup
 - * Generator – start and stop the internal LTC generator
- Large RGB LED dot-matrix clock displays time and status
- Built-in timecode generator capable of running at any standard framerate
- OLED screen with tactile navigation plus oscilloscope and level meter
- Redundant power via Mains Input and PoE



Main Power

(Optional Output)

4x LTC Out (XLR3)

2x LTC In (XLR combo [jack])

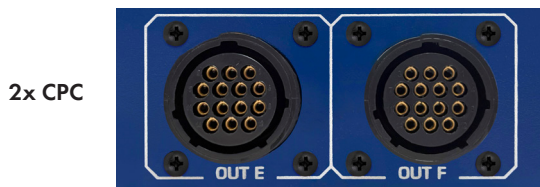
MIDI In

MIDI Out

USB-C MIDI

Ethernet with PoE

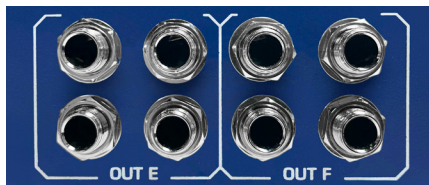
Add 8 additional LTC outputs by specifying an optional output panel from these Options:



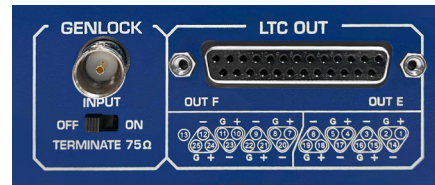
1 x DB-25 ("TASCAM")



8x 1/4" JACKS (BALANCED)



1x GENLOCK & 1x DB-25 ("TASCAM")



The CodeCommander optional 8-channel Output Plates are "Factory (TMB) Install Only".

FEATURE LIST

Features	Notes
Multi-Protocol Compatibility	CodeCommander can receive the following protocols: <ul style="list-style-type: none"> • LTC (SMPTE) via combo XLR - ¼" TRS • Art-Net timecode via Ethernet • RTP MIDI via Ethernet • MTC via USB-C • MIDI timecode via DIN-5 • MIDI Machine Control messages • MIDI Data Pass Thru • Flywheel Generator Mode
User Assignable Buttons	Each of the 4 buttons can be set to trigger a predetermined behavior: <ul style="list-style-type: none"> • Automatic • Priority – manually set priority on a specific source with 3 sources as auto-backup • Generator playback commands start/stop
Timecode Conversion	The primary active timecode feed will be automatically converted and re-distributed to all outputs
OLED Control Screen with Buttons	Navigate the settings with dedicated tactile buttons
Ethernet Remote Management	IP based browser interface with real-time screen mirroring of the unit
Built-in Timecode Generator	Visible on dot-matrix display with playback controls programmed on assignable buttons
LTC Waveform Analysis	Oscilloscope and level measurements for LTC input sources, which is accessible from both the LCD screen on the unit and remotely via the browser interface
Output Options	Add 8 additional LTC outputs by ordering an optional output panel: <ul style="list-style-type: none"> • 2x CPC • 1x DB-25 • 8x Balanced ¼" TRS jacks • 1x GENLOCK + 1x DB-25
Signal Shape Regeneration and Jitter Reduction	All LTC outputs are regenerated with a given level and rise/fall time settings. Jitter reduction is also present - output is not a copy of incoming timecode but rather output of a generator that is synced to incoming timecode
Send Timecode over Ethernet	CodeBridge can receive Art-Net timecode streams from CodeCommander, Supports Stream ID
Output Boost	Level adjustment up to +9 dBu per output
Color Management for Dot-Matrix Display	Default clock color scheme shows LTC status, or set custom colors using RGB commands
Redundant power via Mains + PoE	Powers from both PoE and Mains power <i>*Please note: USB is data only – no USB power</i>

CodeCommander firmware is in active development. Upcoming features, coming soon, include:

- Source/Output matrix routing for multiple sources
- ProPlex Software implementation
- Name networked CodeCommanders or CodeBridges and select as sources/outputs
- Trigger presets remotely via UDM, OSC, sACN/Art-Net
- Interoperability with other ProPlex LTC devices in the network
- Save and upload unit configurations via PC

TECHNICAL SPECIFICATIONS

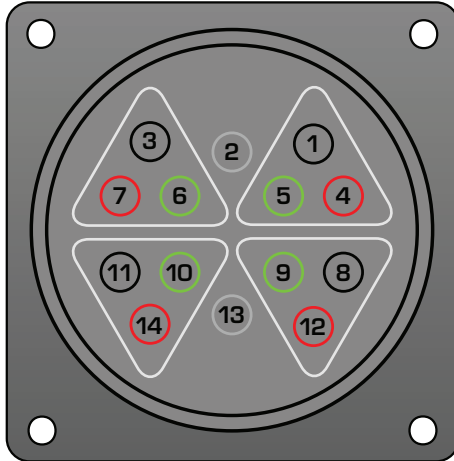
Part Number	PPCODECOMLMER
Operating Voltage	100-240 VAC 50-60 Hz or PoE
Power Consumption	15 W
Power Connector	Neutrik™ PowerCON TRUE1™ with THRU
Ethernet Connector	Neutrik™ EtherCON™ RJ45
MIDI Input Connector	DIN 5-Pin Female
MIDI Output Connector	DIN 5-Pin Female
USB MIDI Input Connector	USB-C
LTC Input Connector	2x Neutrik™ Combination 3-Pin XLR and 1/4" TRS female
LTC Output Connectors	4x Neutrik™ 3-Pin XLR Male Plus optional panel can be selected at time of order with: 8x Outputs over DB-25 with Tascam Pinout, or 8x Outputs over 2x CPC connector, or 8x 1/4" TRS connectors (Output chosen at time of order)
Optimized Input Signal Level	0dBu (775 mV)
Operating Temperature	-20° to +40° C
Unit Dimensions (HxWxD)	19 in (482.6 mm) × 1.7 in (43.7 mm) × 8.4 in (212.2 mm)
Shipping Dimensions (HxWxD)	20.5 in (522 mm) x 3.5 in (90 mm) x 10.5 in (268 mm)
Unit Weight	6.39 lb (2.9 kg)
Shipping Weight	6.83 lb (3.1 kg)

ORDERING CODES

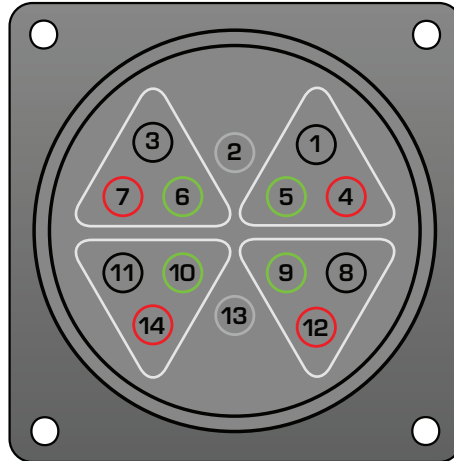
Part Number	Descriptions
PPCODECOMLMER	PROPLEX CODE COMMANDER LTC MIDI ETHERNET RACKMOUNT
PPCODECOMLMOCR	PROPLEX CODE COMMANDER LTC MIDI ETHERNET CPC4 OUT RACKMOUNT
PPCODECOMLMEDR	PROPLEX CODE COMMANDER LTC MIDI ETHERNET DB25 OUT RACKMOUNT
PPCODECOMLMEJR	PROPLEX CODE COMMANDER LTC MIDI ETHERNET JACK OUT RACKMOUNT
PPCODECOMLMEGR	PROPLEX CODE COMMANDER LTC MIDI ETHERNET GENLOCK & DB25 OUT
PPCODECOP2C4	PROPLEX CODE COMMANDER OUTPUT PLATE 2X CPC4
PPCODECOPDB	PROPLEX CODE COMMANDER OUTPUT PLATE DB25
PPCODECOP8J	PROPLEX CODE COMMANDER OUTPUT PLATE 8X JACK
PPCODECOPBNCDB	PROPLEX CODE COMMANDER OUTPUT PLATE BNC-GENLOCK & DB25

CPC PINOUTS

OUT E

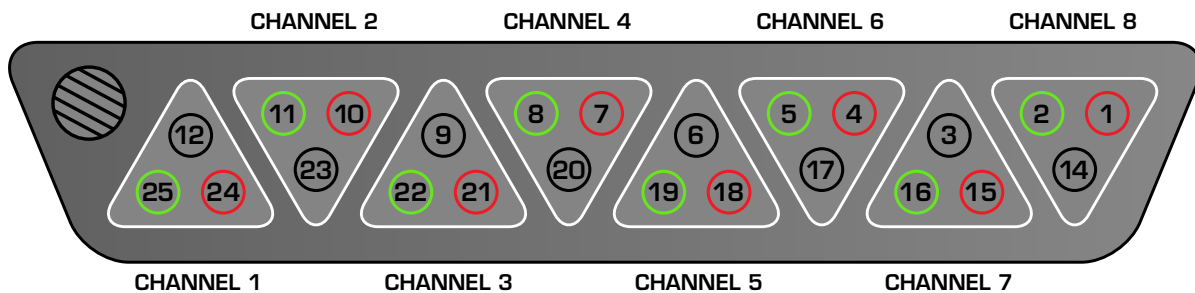


OUT F



NEGATIVE	1	NEGATIVE	8	NEGATIVE	11	NEGATIVE	3	NOT CONNECTED	2
POSITIVE	4	POSITIVE	12	POSITIVE	14	POSITIVE	7	NOT CONNECTED	13
GROUND/SHIELD	5	GROUND/SHIELD	9	GROUND/SHIELD	10	GROUND/SHIELD	6		

DB-25 "TASCAM" PINOUTS



CHANNEL 1	CHANNEL 2	CHANNEL 3	CHANNEL 4				
NEGATIVE	12	NEGATIVE	23	NEGATIVE	9	NEGATIVE	20
POSITIVE	24	POSITIVE	10	POSITIVE	21	POSITIVE	7
GROUND/SHIELD	25	GROUND/SHIELD	11	GROUND/SHIELD	22	GROUND/SHIELD	8
CHANNEL 5	CHANNEL 6	CHANNEL 7	CHANNEL 8				
NEGATIVE	6	NEGATIVE	17	NEGATIVE	3	NEGATIVE	14
POSITIVE	18	POSITIVE	4	POSITIVE	15	POSITIVE	1
GROUND/SHIELD	19	GROUND/SHIELD	5	GROUND/SHIELD	16	GROUND/SHIELD	2



ProPlex LTC Network System

**Timecode and/or MIDI wherever you need them!
Unlimited Ethernet distribution of LTC and MIDI
opens a world of possibilities**

CodeBridge™ PLUS Multi-format timecode converter with a dot-matrix RGB LED clock display



CodeBridge Part Number
PPCODEBLME+
proplex.com/codebridge-plus

- Dot-matrix, RGB LED clock display
- Passive LTC routing - no power needed
- Automatic failover – if a source is lost, the next input is promoted to primary
- Distribute timecode through an existing network infrastructure
- Assign StreamID to transmitted streams and filter incoming streams
- OLED control panel with intuitive user interface, input monitors and LTC oscilloscope
- Full-featured browser monitoring and control includes large clock and OLED } screen mirroring options
- Two transformer-isolated XLR3 LTC outputs. Adjustable output level (-18 dBu to +6 dBu)
- Compact, lightweight, rugged, reliable. Backpack friendly
- USB cable retainer
- Available rackmount kit and yoke options
- Redundant power – USB-C and PoE

CodeCommander™ Powerful multi-purpose timecode processor provides timecode conversion, generation, re-generation, configuration, repair, monitoring, plus source/output selection and management of an entire ProPlex LTC network



CodeCommander Part Number
PPCODECOMLMER
proplex.com/codecommander

Fully compatible with industry standard timecode protocols:

- SMPTE timecode (LTC) via balanced XLR ports
- Art-Net Timecode
- MIDI timecode (MTC) via USB-C, RTP-MIDI and DIN-5
- Convert and distribute the primary timecode source over up to 12 balanced LTC outputs
- 4x XLR3 outputs built-in (base model)
- Optional interchangeable panels with 8x outputs and different connector options: (DB-25, CPC, 1/4" Jacks, and PB-25 diagonal/BNC)
- Signal shape regeneration and jitter reduction
- Output level adjustment up to +6dBu (independent for XLR and optional panels)
- 4 user-configurable preset buttons which trigger source selection modes
- Large RGB LED dot-matrix clock displays primary source and timecode generator with customizable color or default colour status scheme

*Please refer to cut-sheet for full list of features



CodeBridge™ Timecode and MIDI transmission/reception over Ethernet



CodeBridge Part Number
PPCODEBLME
proplex.com/codebridge

- Passive LTC routing - no power needed
- Many In, Primary Out – any input can be elected as “primary” and converted to all outputs
- Automatic failover – if a source is lost, the next input is promoted to primary
- Distribute timecode through an existing network infrastructure
- Assign StreamID to transmitted streams and filter incoming streams
- OLED control panel with intuitive user interface, input monitors and LTC oscilloscope
- Full-featured browser monitoring and control includes large clock and OLED } screen mirroring options
- Two transformer-isolated XLR3 LTC outputs. Adjustable output level (-18 dBu to +9 dBu)
- Compact, lightweight, rugged, reliable. Backpack friendly
- USB cable retainer
- Available rackmount kit and yoke options
- Redundant power – USB-C and PoEq

CodeClock™ Compact timecode display with LTC/MIDI/USB conversion and LTC distribution



CodeClock Part Number
PPCODECLME
proplex.com/codeclock

- Large RGB LED matrix clock displays time and changes color depending on status
- Receives timecode over LTC (XLR3), MIDI (DIN), or USB MIDI
- Redistributes selected timecode over LTC outputs
- 3x Neutrik XLR3 outputs are transformer-isolated and have adjustable level (-18dBu to +6dBu)
- OLED control panel with intuitive user interface, and waveform display
- Built-in timecode generator capable of running at any standard framerate
- Compact, lightweight, rugged, reliable. Backpack friendly
- Available rackmount kit options
- Powered via USB-C. Cable retainer prevents accidental disconnection



ProPlex LTC tools for programmers

FoH Friend™ Timecode/Audio Switching Tools

Work with your local timecode and audio track files every spare minute, until the stage calls!



- Available with and without built-in USB-C DAC
- Instantly switch between two timecode and audio sources
- All the outputs and controls you need for programming with timecode and audio tracks
- Independent gain controls for XLR audio output + true headphone amp with 1/4" and 3.5mm jacks
- Two audio + two timecode inputs all with combination XLR/TRS connectors
- Selector switches for independent selection of audio + timecode inputs
- DAC can input and output via USB simultaneously
- Backpack friendly units ship complete with carrying pouch



Original FOH Friend Part Number **PPFOHF** FOH Friend DAC Part Number **PPFOHFDAC**
proplex.com/foh-friend-timecode-audio-switching-tool

ProPlex LTC Devices Ordering Codes

PART NUMBERS	PROUDCT NAME
PPCODECOMLMER	PROPLEX CODE COMMANDER LTC MIDI ETHERNET RACKMOUNT
PPCODEBLME	PROPLEX CODEBRIDE TIMECODE DEVICE
PPCODECLME	PROPLEX CODECLOCK TIMECODE DEVICE
PPFOHF743MP	PROPLEX FOH FRIEND WITH CARRYING POUCH
PPFOHFDAC	PROPLEX FOH FRIEND DAC WITH CARRYING POUCH
PP1RMKITSS	PROPLEX 1U RACKMOUNT KIT, SMALL, SINGLE
PP1RMKITSD	PROPLEX 1U RACKMOUNT KIT, SMALL, DUAL
PP1RMKITS+MD	PROPLEX 1U DUAL COMBINATION SMALL + MEDIUM