

PB-TDM1-CONTRA Series

Contra G.703 64Kbps CESoPSN Unit

(1) DB15 Port + (2) 10/100/1000Base-T Ports
+ (1) 100/1000Base-X SFP Slot



The PB-TDM1-CONTRA Series enables a Contra-clocked, 64Kbps G.703 circuit to be transported over Ethernet or IP networks. The units are typically deployed in pairs, connecting the Contra clocked CPE across the packet network. Point to multi-point applications are supported with a maximum of 16 slaved devices connecting to a master unit.

For Contra applications requiring low latency operation, comprehensive features are available via the management system to tune the unit's performance.

Features

- Multi-standard TDM pseudowire support: CESoPSN, SATOP, TDM over IP
- Highly accurate & stable clock recovery
- Oscillator Performance
 - Hold-over 24hrs 150ppb (typical)
 - Aging per day 10ppb
 - Temperature Stability 12ppb
- G.823/4 Synchronization levels
- Contra port
 - 1 port - DB15 (female) connector
 - G.703 64kbps contra
 - Presents as DCE (cables for DTE)
 - ITU G.706
 - Transparent to user signaling
- Support for Jumbo Packets up to 9,600 bytes on Ethernet ports
- Port based VLAN, IEEE 802.1Q VLAN including Q-in-Q
- Link Aggregation Control Protocol (LACP)
- Ring Protection: MSTP, RSTP, STP
- SNMP v1, v2c and v3
- RMON and Syslog
- Management via CLI, Telnet, SSH, SSL, SNMP, Web GUI
- Authentication: Radius, TACACS+, IEEE 802.1x
- IGMP Snooping
- LLDP
- IPv6 and IPv4 dual protocols
- Firmware/Configuration backup/restore via Web/FTP

Specifications

Standards	IEEE 802.3 IEEE 802.3u IEEE 802.3z IEEE 802.3ab IEEE 802.3x IEEE 802.3ad IEEE 802.1p IEEE 802.1Q IEEE 802.1w IEEE 802.1s IEEE 802.1x IEEE 802.1AB ITU-T G.823/4 ITU-T G.703
Ports	(1) Contra DB15 (female) connector (2) 10/100/1000Base-T RJ-45 ports (1) 100/1000Base-X SFP slot (empty) (1) RJ-12 console port
Dimensions	Width: 8.86" [225 mm] Depth: 7.87" [200 mm] Height: 1.73" [44 mm]
Power Input	AC Version Bale lock cable clamp Auto-sensing 100VAC-240VAC, 47-63Hz Max consumption 0.2A @ 230VAC Typical Consumption 18 Watts DC Version External presentation -48VDC, 0Vdc and GND via external screw down termination Wide input range -18V to -72V Typical consumption 13 Watts
Environment	Operating: 0°C to +60°C Humidity: 10% to 90% (non-condensing)
Weight	5.73 lbs. [2.6 kg]
Certifications	CE Mark EN60950-1:2006+ A11:2009+ A12:2010+ A12:2011 EN50121-4:2006, EN61000-3-2:2006+ A1&A2:2009 FCC CFR47 Parts15: 107&109, CB Scheme Certified
Warranty	1 Year



Ordering Information

PB-TDM1-CONTRA-AC

- (1) DB15 port
- + (2) 10/100/1000Base-T ports
- + (1) 100/1000Base-X SFP slot (empty)
- AC input (serial control cable included)

PB-TDM1-CONTRA-DC

- (1) DB15 port
- + (2) 10/100/1000Base-T ports
- + (1) 100/1000Base-X SFP slot (empty)
- 48VDC input (serial control cable included)

Optional Accessories (sold separately)

SFP Modules

PB-RMK-S

- 19" rack mount kit for PB-TDM1-CONTRA Series

Features Continued

- TDM packets can be assigned IP Diffserv (DSCP) or ToS and IEEE 802.1p CoS values
- Supports full IEEE 802.1Q tagging & associated IEEE 802.1p CoS prioritization levels
- All egress packets, including TDM links, can be prioritized across four output queues
- Various clocking options for different network types & clock recovery requirements
- Quality of Service: Supports 8 hardware queues with strict priority and WRR, shaping, policing. Per port bandwidth management.

Applications

- Contra

Power Cord Included

To order the corresponding country specific power supply, add the extension from the list below to the end of the SKU; Ex: PB-TDM1-CONTRA-AC-NA

- NA = Country Code
- NA = North America
- LA = Latin America
- EU = Europe
- UK = United Kingdom
- SA = South Africa
- JP = Japan
- OZ = Australia
- BR = Brazil