

Watson TDM

Access Platform

Watson TDM is a modular DSL-access-platform for E1, nX64 and Ethernet, delivering First-Mile services over copper. Based on the Standard G.SHDSL.bis, Watson TDM delivers longer reach, higher reliability, higher throughput and multiple interfaces for a very competitive price.

Watson TDM enables Telcos, Service Providers and Campus Operators to use one device for a wide variety of services on 1, 2 or 4 copper pairs. Watson TDM's multi-speed capability allows Carriers to trade rate for range and adapt to the existing copper plant, lowering deployment costs.

It is ideal for PRA access, interconnection of LAN and PBX networks, as well as interconnection of mobile base stations and ISP data connections.

Watson TDM supports payload rates from 192

kbps to 22.8 Mbps. Deployment range can be extended with the Watson TDM Regenerator.

Watson TDM is fully compatible with the successful and proven family of Watson 5 SHDSL modems. Existing Watson 5 installations can easily be extended with Watson TDM modems, both mixed subrack and mixed link configurations are possible. All mechanics that are available for Watson 5 are compatible with Watson TDM.

Watson TDM is supported by Schmid's industry leading DSL management application, the Watson Element Manager WEM-2.

Watson TDM is one more way Schmid brings you innovation and technology leadership you can rely on for all of your transmission needs. All backed by Swiss quality and by worldwide service and support.



The Broadband Portfolio for Smart Telecommunication

Technical Specifications

DSL Interface

ITU-T G.991.2 (2005)
ETSI TS 101 524 (2006)
Line Code TC-PAM 16, TC-PAM 32
192 kbps – 5.7 Mbps per pair
1, 2, 3 or 4 copper pairs
Line Impedance: 135 Ω
Transmit Power 14.5 dBm @ 135 Ω
Connector RJ-45, 8 pin

User Interfaces

1, 2 or 4 interfaces

E1 2'048 kbps 120 Ω. or 75 Ω.
G.703 transparent or G.704 framed, PRA
Jitter performance according to ITU-T G.823
Connectors:
-SubD 120 Ω (plug-in),
-RJ-48C 120 Ω (tabletop)
-BNC (75 Ω)

nx64 kbps: V.35 (Connector ISO 2593, 34 pin),
V.36 (Connector ISO 4902, 37 pin),
X.21 (Connector ISO 4903, 15 pin),
DTE or DCE

Ethernet 10/100 Mbps half/full-duplex,
Auto sense, Auto Crossover
Connector RJ-45

Applications

Leased Lines
PRA access
Interconnection of LAN and PBX networks
Mobile basestation interconnection
ISP connection
E1, nx64, Ethernet
ILEC's, CLEC's, ISP's

System Features

Local and remote powering
Single and cascaded regenerators
Multiservice operation
Multipoint operation
1+1 automatic protection switching
ITU-T G.826 Performance monitoring

Management and Configuration

LED status indication
Urgent / non-urgent alarm relay contacts
Local Management: RS-232 (VT-100)
Remote Management: SNMP, Telnet
Supported by WEM-2 (Release 1.5-10)
Firmware download (local and remote)

Power Supply

Subrack: 48VDC
Tabletop: 48VDC, 115/230 VAC with external adapter
Minirack, Tabletop housing: 48 VDC, 115/230 VAC

Dimension and Weight

Subrack: 19" x 7U (482 x 310 x 291.4 mm), 4 kg
Tabletop: 220 x 43 x 195 mm, 1 kg
Minirack Mechanics SZ.876: 19" x 1U (482 x 43.6 x 291.4 mm), 4 kg
Minirack Mechanics SZ.896: 19" x 1U (482 x 43.6 x 291.4 mm), 1 kg
Tabletop housing SZ.875: 280 x 56 x 304 mm, 1.4 kg

Environmental Conditions

Operating temperature –5° to 60°C
Humidity 5% to 85% R.H.
Safety EN 60950
EMC EN 55022 / EN 300386-2
Surge Protection ITU-T K.20 / K.21 (basic level)

Ordering Information

Plug-in:
SZ.867 Watson TDM Plug-in

Tabletop:
SZ.847 Watson TDM Tabletop

Regenerator:
SZ.856.V310 Regenerator Watson TDM, Watson 5

Mechanics:
SZ.379.V3 19"Subrack (for 12 LTU + 1 ACU/CMU)
SZ.875.V100 Tabletop housing for Watson Plug-in (DC Power)
SZ.875.V110 Tabletop housing for Watson Plug-in (AC+DC Power)
SZ.876.V100 19"Minirack Mechanics for Plug-in (AC+2 x DC Power)
SZ.876.V110 19"Minirack Mechanics for Plug-in (DC Power)
SZ.896.V100 19"Minirack Mechanics for Tabletop

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