

# WATSON ETHERNET MULTISERVICE

## WATSON ETHERNET MULTISERVICE PLUG-IN



### 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  $\Omega$   
Transmit Power 14.5 dBm @ 135  $\Omega$   
Connector RJ-45, 8 pin

#### User Interfaces

E1 2'048 kbps 120/75  $\Omega$   
Connector RJ-48C  
Ethernet 10/100 Mbps half/full-duplex,  
Auto sense, Auto MDI-X  
Connector RJ-45

#### TDM Features

G.703 transparent or G.704 framed operation  
2 x E1 over a single DSL pair  
Fractional E1 services  
ISDN PRA NT1 function  
Jitter and Wander according to ITU-T G.823

#### Ethernet Features

Maximum frame size 2'048 bytes  
Single and double tagged VLANs (802.1q)  
Layer 2 and layer 3 classification (802.1p, DSCP)  
4 classes of service  
Strict or weighted fair queuing  
Per-port rate limiting  
HDLC and Cisco HDLC Framing

#### System Features

Remote power feeding to regenerators and STU-R  
Single and cascaded regenerators  
ITU-T G.826 Performance monitoring  
Dual channel converter mode E1  $\leftrightarrow$  Ethernet

#### Management and Configuration

LED status indication  
Urgent / non-urgent alarm relay contacts (on SCU)  
Local Management: RS-232 (VT-100)

## WATSON ETHERNET MULTISERVICE TABLETOP



### 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 or 2 copper pairs  
Line Impedance: 135  $\Omega$   
Transmit Power 14.5 dBm @ 135  $\Omega$   
Connector RJ-45, 8 pin

#### User Interfaces

E1 2'048 kbps 120/75  $\Omega$   
Connector RJ-48C  
Ethernet 10/100 Mbps half/full-duplex,  
Auto sense, Auto MDI-X  
Connector RJ-45

#### TDM Features

G.703 transparent or G.704 framed operation  
Fractional E1 services  
ISDN PRA NT1 function  
Jitter and Wander according to ITU-T G.823

#### Ethernet Features

Maximum frame size 2'048 bytes  
Single and double tagged VLANs (802.1q)  
Layer 2 and layer 3 classification (802.1p, DSCP)  
4 classes of service  
Strict or weighted fair queuing  
Per-port rate limiting  
HDLC and Cisco HDLC Framing

#### System Features

ITU-T G.826 Performance monitoring  
Converter mode E1  $\leftrightarrow$  Ethernet

#### Management and Configuration

LED status indication  
Local Management: RS-232 (VT-100)  
Remote Management: SNMP, Telnet (through Watson Ethernet  
plug-in modems)  
Firmware download (local and from plug-in modem)

#### Power Supply

Remote Management: SNMP, Telnet (through SCU)  
Firmware download

**Power Supply**

48 .. 60 VDC (-17/+20%)

**Environmental Conditions**

Storage EN 300 019-1-1 class 1.2  
Transportation EN 300 019-1-2 class 2.2  
Operation EN 300 019-1-3 class 3.2  
Safety EN 60950  
EMC EN 300386-2, ES 201 468 Level 2  
Surge Protection ITU-T K.20 basic level

**Ordering Information**

SZ.867.V692 Watson Ethernet plug-in 4xDSL 2xE1 2xEth  
SZ.378.0C0V22 Cable 2 Mbit/s, RJ-48C asymmetric, 3m  
(Set of 10)

Remote powering from plug-in, 115/230 VAC with adapter

**Environmental Conditions**

Storage EN 300 019-1-1 class 1.2  
Transportation EN 300 019-1-2 class 2.2  
Operation EN 300 019-1-3 class 3.2  
Safety EN 60950  
EMC EN 300386-2, ES 201 468 Level 2  
Surge Protection ITU-TK.21 basic level

**Ordering Information**

SZ.847.V445 Watson Ethernet tabletop 2p 1xE1 1xEth  
SZ.378.0C0V22 Cable 2 Mbit/s, RJ-48C asymmetric, 3m  
(Set of 10)