

# WATSON ETHERNET

## WATSON ETHERNET PLUG-IN



### Technical Specifications

#### DSL Interface

4 DSL Interfaces  
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  
4 Spams, 1, 2 or 4 copper pairs per spam  
Line Impedance: 135  $\Omega$   
Transmit Power 14.5 dBm @ 135  $\Omega$   
Connector RJ-45, 8 pin

#### Ethernet Interfaces

4 Ethernet User Interfaces  
1 Ethernet Management Interface  
IEEE 802.3 Ethernet  
10/100 Mbps half/full duplex, Auto-Sensing, Auto-Crossover  
Connector RJ-45

#### Operating modes

Point to point, point to multipoint, linear networks

#### DSL Features

ITU-T G.826 performance monitoring  
Single-pair fallback for bonded DSL spans  
MAC Defect signaling of DSL status

#### Ethernet Features

Maximum frame size 1'536 bytes  
Single and double tagged VLANs (802.1q, QinQ)  
Layer 2 and layer 3 classification (802.1p, DSCP)  
4 classes of service  
Strict or weighted fair queuing  
Per-port rate limiting  
Rapid Spanning Tree (IEEE 802.1d)

#### Management and Configuration

LED status indication  
Urgent and non-urgent alarms  
Local management: RS-232 (VT-100)  
Remote management: SNMP, Telnet  
In-band management through VLAN  
MIBs: RFC 1213, RFC 2737, RFC 2819, RFC 2863, RFC 3413,  
RFC 3415, RFC 3635, RFC 3636, RFC 4188, RFC 4318, RFC  
4319, RFC 4363. Vendor-specific Schmid MIB, HDSL MIB,

## WATSON ETHERNET TABLETOP



### Technical Specifications

#### DSL Interface

1 or 2 DSL Interfaces  
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

#### Ethernet Interfaces

1 Ethernet User Interface  
IEEE 802.3 Ethernet  
10/100 Mbps half/full duplex, Auto-Sensing, Auto-Crossover  
Connector RJ-45, 8 pin

#### Ethernet Features

Maximum frame size 2'048 bytes  
Single and double tagged VLANs (802.1q, 802.1ad)  
Layer 2 and layer 3 classification (802.1p, DSCP)  
4 classes of service  
Strict or weighted fair queuing  
Per-port rate limiting  
HDLC Framing (RFC 1547)

#### 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

100 ~ 240 VAC with external power adapter  
Remote powering from Watson TDM plug-in

#### Dimensions and Weight

220 x 43 x 195 mm, 1.2 kg

#### Environmental Conditions

Storage EN 300 019-1-1 class 1.2 (-25 .. +55 °C)  
Transportation EN 300 019-1-2 class 2.2 (-25 .. +70 °C)  
Operation EN 300 019-1-3 class 3.2e (-5 .. +55 °C)

Watson MIB  
Firmware upgrade with TFTP (RFC 783)

**Power Supply**

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

**Dimensions and Weight**

SZ.866.V654: 259mm (6 HE) x 220 mm x 30mm, 0.5 kg

**Environmental Conditions**

Storage EN 300 019-1-1 class 1.2 (-25 .. +55 °C)

Transportation EN 300 019-1-2 class 2.2 (-25 .. +70 °C)

Operation EN 300 019-1-3 class 3.2e (-5 .. +55 °C)

Safety EN 60950

EMC EN 300386-2, ES 201 468 Level 2

Surge Protection ITU-T K.20 basic level

**Ordering Information**

SZ.866.V654 Watson Ethernet plug-in 4xEthernet 4xDSL

Safety EN 60950

EMC EN 300386-2, ES 201 468 Level 2

Surge Protection ITU-T K.21 basic level 1

**Ordering Information**

SZ.847.V350 Watson Ethernet tabletop 1p 1xEth

SZ.847.V450 Watson Ethernet tabletop 2p 1xEth