



# ADSL2+ Modem alpha<sup>®</sup> DSL WTM

For stationary applications under extreme temperature conditions (-25 °C...+70 °C)



FMN communications GmbH is certified CISCO-CTDP partner.  
This product is compatible with the CISCO-MAR-3200 series.





# ADSL2+ Modem alpha<sup>®</sup> DSL WTM

For stationary application in extreme temperature conditions (-25 °C...+70 °C)



IP20-case

The **alpha<sup>®</sup> DSL WTM** is a universal ADSL2+ modem especially designed for the use under extreme temperature conditions.

The modems are available as PC/104-plus-assembly, as PCB, in a robust IP54-outdoor-case as well as a IP20-DIN rail case.

The PC/104-Plus-construction can be easily integrated in appropriate PCB systems.

Versions according to ITU G 992.1 Annex A and Annex B (G.dtm 1TR112(UR2)) are available for the international use.

## Technical parameters

DSL-access	ITU G.992.1 Annex A or ITU G.992.1 Annex B (G.dmt 1TR112(UR2))
Ethernet interface	10/100BaseT
DSL transmission rate	- ADSL2+           max. 24 Mbps (Downstream) - ADSL2           max. 12 Mbps (Downstream) - ADSL            max. 8 Mbps (Downstream) up to 1 Mbps (Upstream)
LED display for	Power / DSL synchronisation / LAN data transfer
Operating temperature	-25 °C till +70 °C (+55 °C with case versions)

## Power supply

• <b>alpha<sup>®</sup> DSL WTM PC x*</b>	V <sub>cc</sub> = 3,3 V
• <b>alpha<sup>®</sup> DSL WTM LP x*</b>	V <sub>cc</sub> = 3,3 V
• <b>alpha<sup>®</sup> DSL WTM PC x*D</b>	V <sub>cc</sub> = 12 V
• <b>alpha<sup>®</sup> DSL WTM LP x*D</b>	V <sub>cc</sub> = 12 V
• <b>alpha<sup>®</sup> DSL WTM EG x*</b>	external IP64-unit
• <b>alpha<sup>®</sup> DSL WTM HS x*</b>	10 ... 60 VDC or Power-over-Ethernet
• maximum power input	10 W
• average power input	6 W

## Versions

- **alpha<sup>®</sup> DSL WTM PC x\*** - form factor according to PC/104-Plus specification version 2.0 Nov. 2003
- **alpha<sup>®</sup> DSL WTM PC x\*D** - form factor according to PC/104-Plus specification version 2.0 Nov. 2003 with power supply circuit board
- **alpha<sup>®</sup> DSL WTM LP x\*** - as alpha<sup>®</sup> DSL WTM PC x\* but without PC/104-Plus-plug connector
- **alpha<sup>®</sup> DSL WTM LP x\*D** - as alpha<sup>®</sup> DSL WTM PC x\*D but without PC/104-Plus-plug connector with power supply circuit board
- **alpha<sup>®</sup> DSL WTM EG x\*** - IP54-case
- **alpha<sup>®</sup> DSL WTM HS x\*** - IP20-DIN rail case for mounting rail TS TS 35 (DIN EN 60715)

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**x\* = A - Annex A**  
**x\* = B - Annex B**