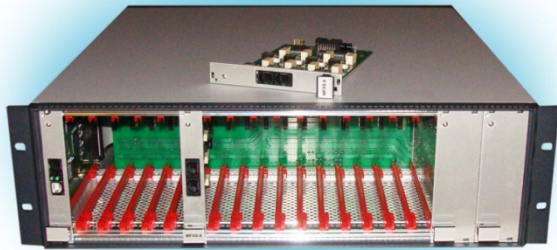# ASTEROID2-MT16 – modular channel bank for Asterisk/Freeswitch

ASTEROID2-MT16 is designed for connection of the voice subscribers (lines) to IP PBX Asterisk/Freeswitch. The device allows connection of up to 128 phone ports FXS/FXO and up to 32 GSM ports. Connection to IP PBX is performed via the Ethernet network interface via the TDMoE protocol. Support of TDMoE in IP PBX is realized via the DAHDI program interface.

The channel bank is based on the modular basis, thus providing flexibility and efficient configuration of hardware.

Main specifications

Interfaces:

- **16 slots for the FXS/FXO/GSM modules (128 FXO/FXS, 32 GSM)**
- **Ethernet port 10/100 - 1**
- **Configuration port (USB or COM port)**

Power supply:

- **220 V**

Design:

- **Case 3U, for 19'' rack mounting with external access to the modules FXS/FXO/GSM**

Design options

ASTEROID2-MT16	**Chassis 16 slots with a power unit and controller**
ASTEROID2-MT16-EC	**Chassis 16 slots with a power unit and controller, with an option of hardware echo suppressor**
MFXS-8	**Module FXS, 8 ports**
MFXO-8	**Module FXO, 8 ports**
MGSM-2	**Module GSM, 2 ports**

Technical parameters

General parameters	
configuration	USB or COM port
supply voltage	220V +- 20%
power consumption	No more than 250 W
dimensions	482x475x133 mm
weight	11 kg
FXS/FXO ports	
coding	A-rule (ITU-T G.711) or μ-law (PUB-43801)
nominal signal level	0 dBm +- 0.5 dB
nominal impedance of the line	600 Ohm
reflected signal, FXS	no more than-20 dB
reflected signal, FXO	no more than-12 dB
amplitude-frequency characteristic unevenness	+- 1 dB
noise level	no more than-47 dBm
design current in-line(FXS)	20 mA
beep signal (FXS)	100 V (from peak to peak), 25 Hz
pulse dialling	+
caller ID	+
DTMF	+
GSM ports	
frequency range	850/900/1800/1900
connector for external antenna	SMA
alarm type on the Asterisk side	E & M
Ethernet interface	
type of the connector	RJ45
supported rates	10, 100 Mbit/s
protocol	TDMoE

Delivery kit

- **ASTEROID2-MT16 – 1 pcs**
- **CD (DVD) with documentation – 1 pcs**
- **Power cable (Europlug) – 1 pcs**
- **Console cable– 1 pcs**

FXS/FXO/GSM modules, GSM antennas are not included into the delivery kit and shall be purchased separately.

Warranty Policy

Free repair or replacement of the device during 2 years from the date of purchase.

Supplier

"Parabel" LLC
www.parabel.ru, phone/fax number +7 383 213 87 07 Email: sales[AT]parabel.ru