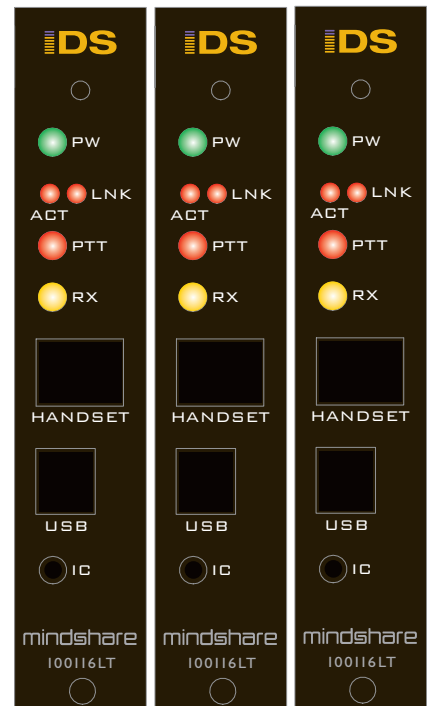


Mindshare 100116LT Radio Interface Card

Mindshare 100116LT Interface Card

The 100116LT is the multi-unit card cage version of the Mindshare Radio Interface Card. Up to 16 of the Mindshare 100116LT cards may be installed into the Mindshare card cage (100016MC), providing a high density, easily maintainable solution for those systems requiring multiple Mindshare radio interfaces at a single location. The 3 rack unit 100016MC, 19" Mindshare card cage provides common power, Ethernet connectivity, and GPS time information to each Mindshare 1100116LT card installed. Cards are hot-swappable, and can be removed or inserted while power is applied to the card cage without disturbing the operation of other cards.

The Mindshare Radio Interface is a network audio interface that enables connection of radios or other analog audio sources to the Mindshare console and radio control system. It is specifically engineered for the radio control application, and is designed with features and flexible I/O for audio and control signals that allow virtually any radio system to be interfaced into the Mindshare RoIP (Radio over IP) environment. Unlike PC based radio gateways and generic IT hardware adapted for use with radio, the Mindshare radio interface is a rugged device designed to operate in the same environmental and RF conditions as the radio equipment connected to it. Embedded software with technician friendly, web browser based setup and maintenance features ensure that the Mindshare Radio Interface will be as trouble free in operation as it is easy to configure and install.



Mindshare Radio Interface Major Features

VoIP Radio Interface

Flexible Direct Radio interface

2 Wire and 4 Wire tone control interface

Web based interface for configuration

100% Digital Gain Control via Web interface

SNMP Server for Card Health Monitoring

MDC1200 and Fleetsync ANI/Emergency Decoding

Voter compatible data stream with SNR and GPS time stamping

Use with Mindshare Voter for Full Voting Solution

Multiple Vocoder support: uLaw, ADPCM32, and GSM

SIP Telephony Stack with 2 Line presences

PTT of attached radio from any phone

Monitor inbound radio calls from any phone

Simultaneous operations from two phones plus console

Radio DTMF Decoder for Radio to Phone line calls

iDen PTT network support

Separate CTCSS generation an output

Receive Automatic Gain Control Settings

Multiple Monitor Modes

Form C Isolated PTT closures for PTT, Monitor and Spare

Integrated Handset port for local monitoring and control

Mindshare Radio Interface 100116LT

Sequential tone line input and output impedance:

- Two-Wire: 600, 1200 ohm, jumper selectable, transformer isolated,
- Four-Wire TX Line: 600, 1200 ohm, jumper selectable, transformer isolated,
- Four-Wire RX Line: 600 or 10K ohm jumper selectable, transformer isolated,

Audio Ports: Radio RX, Radio TX, Handset microphone and earpiece, Tx Monitor, Wideband TX, Wideband RX.

Relays: PTT, Monitor, Spare

- Maximum Voltage: 125VDC, 150VAC
- Maximum Switched Current: 1A
- Maximum Carrying Current: 1A
- Maximum Switch Power: 30W (DC), 60VA (AC)

Line Input Level: -40 dBm to +10 dBm

Line Output Level: -40 dBm to +10 dBm into a 600-ohm line, adjustable

Soft Pots: Full on to Full off with 255 steps, RX, TX, TXmon, and WideTX

Soft Voice Gain: +/- 12dB

Codec Gains: Inputs: 0 to 54dB in 1.5dB steps

Outputs: 0 to -54dB in -1.5dB steps

Supported Voice Compression Algorithms:

- uLaw (G.711), 80kbit bandwidth when active
- ADPCM32 (G.726), 50kbit bandwidth when active
- GSM, 31kbit bandwidth when active

Receive Audio Compression: Less than 3dB change in VoIP stream level for up to 12 dB below input level and 25dB above input level.

Noise Floor: 45 dB below operating levels.

Audio Frequency Response: + 1/-3 dB, 300 to 3000 Hz, except at the transmit tone notch frequency.

Tone Frequencies: All Function frequencies are selectable from 600 to 3300 Hz. Accuracy +/- 1 Hz.

PTT Frequencies: 2175, 2600, 2100 Hz.

MDC1200 and Fleetsync decode options

iDen network interface support

Voter SNR and GPS timestamping operate with Mindshare Voter for full IP voting solution.

Network Connection: Single, full duplex 10/100 auto-sensing, Ethernet, RJ45 connection

GPS sourced time base input, accurate to 50uSec or less. Connection port included on 100101LT enclosure.

Operating Temperature Range: 0 to +50 degree C.

Power Requirements: 12.0 Vdc at 0.7A maximum

Made in the USA.

Note: Specifications are subject to change without notice.