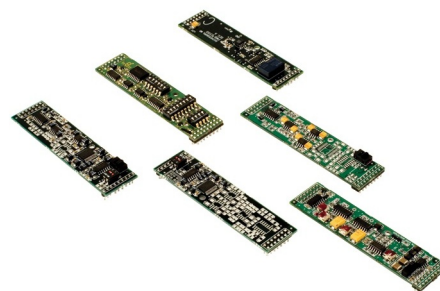


## Features

- Unrivalled flexibility
- User-definable service per Option Module channel:
  - Contact closure
  - Audio
  - Stereo audio
  - RS-422/485 and RS-232 data
  - Intercom (AiPhone)
  - Audio Amplifier (SelecTone)



## Option Modules

### Description

The Optelecom® option module is a small, plug-in circuit card module that offers the capacity to transport various signal types over a fiber transmission link. The option module is only available for selected fiber optic transmitter and receiver models of the 9000 series.

If the basic operation of the host link is unidirectional (simplex), the video and any additional signal transmission capabilities operate only in the same direction as the video.

If the operation of the host link is bidirectional (duplex), the additional signals operate in both directions on the fiber. The option modules come factory pre-installed and are specially designed to provide maximum flexibility in virtually any combination of audio, data, contact closures, intercom, or Audio Amplifier channels.

Refer to the data sheet of 9000 series models that support option modules for ordering information.

# Technical Specifications

## Option Modules

### Option Module Type A

Duplex audio	
Frequency response	20 Hz to 20 kHz
Input connections	Balanced or unbalanced
Input impedance	600 $\Omega$ or 47 $\Omega$ , selectable
Input level	1 Vpp, nominal; 5.5 Vpp, maximum
Output level	Equivalent to input level
Output connections	Balanced or unbalanced, selectable
Signal-to-noise ratio	>78 dBw

### Option Module Type B

Duplex data	
Data input types	RS-232, RS-422/485
Data rate	DC to 115 kbps (RS-422/485 and RS-232); 32 kbps (Manchester)

### Option Module Type C

Duplex contact closure	
Input current	6 mA (maximum); 0.6 mA (minimum)
Maximum isolation voltage	50 Vdc
Output contact rating	300 mA at 30 Vdc

### Option Module Types D and E

Simplex stereo audio	
Frequency response	20 Hz to 20 kHz
Input connections	Balanced or unbalanced
Input impedance	600 $\Omega$ or 47 $\Omega$ , selectable
Input level	1 Vpp, nominal; 5.5 Vpp, maximum
Output level	Equivalent to input level
Output connections	Balanced or unbalanced, selectable
Signal-to-noise ratio	>78 dBw

### Option Module Types GM and GR

Intercom	
Frequency response	200 Hz to 3.7 kHz
Input connections	Twisted pair from AiPhone LEM master, and LE series remotes
Power remote end	2.0 A (signaling); 350 mA (normal)
Power master end	350 mA (normal)
Contact closure	
Input current	6 mA (maximum); 0.6 mA (minimum)
Maximum isolation voltage	50 Vdc
Output contact rating	300 mA at 30 Vdc

# Technical Specifications

## Option Modules

### Option Module Types J and K

Audio Amp (per channel)

Frequency response	20 Hz to 20 kHz
Input connections	Balanced line signal
Input impedance	95 kΩ
Input level	25 Vrms
Output level	Equivalent to input level
Output connections	Balanced line signal
SNR (A-weighted)	>78 dB

### Ordering information

Models	Description
Option Module A	Audio module
Option Module B	Data module
Option Module C	Contact closure module
Option Module D	Simplex stereo audio input module
Option Module E	Simplex stereo audio output module
Option Module GM	Aiphone intercom module, master end
Option Module GR	Aiphone intercom module, remote end
Option Module J	Audio Amp, speaker end
Option Module K	Audio Amp, command end



The quality management system used in the development, production, sales, and support of this product is ISO 9001:2008 certified by LRQA.

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