

## Z - M - BOX

M-BOX set for multiplication of wave transmission in CWDM technique.



Double-width LGX modular housings



View of the front panel of the M-BOX



CWDM optical insert kit

### main features:

- possibility to transmit multiple signals on one pair of fibers.
- 8 CWDM channels,
- 20 nm channel spacing.,
- monitoring port working in both directions,
- extension port for 1310 nm window,
- low insertion loss and high channel insulation,
- Range: 80km

### set includes:

- two CWDM M-BOX multiplexer and demultiplexer systems in LGX housing equipped with monitoring and expansion ports
- Optical inserts with a bit rate of 1 or 10 Gb for both transmission directions with adapters in the LC / PC standard
- A set of patchcords

### sectors:



OPERATORZY  
TELEKOMUNIKACYJNYCH  
I MOBILNI



OPERATORZY  
TRANSMISJI DANYCH



OPERATORZY  
ISP I CATV



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PRODUCENCI  
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SŁUŻBY MUNDUROWE



PRZEDSIĘBIORSTWA  
UŻYTECZNOŚCI  
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KOLEJ

## Z-M-BOX

### technical specifications:

Z-M-BOX		4	8
central CWDM waves length [nm]		1470,1490,1510,1530	1470,1490,....,1610
band [nm]		±6,5	±6,5
space [nm]		20	20
insertion loss [dB] *		<2,2	<2,2
insertion loss for the multiplexer and demultiplexer pair [dB] *		<3,5	<3,5
demultiplexer isolation[dB]	Adjacent channels	>35	>35
	Non- adjacent channels	>45	>45
multiplexer isolation [dB]	Adjacent channels	>35	>35
	Non-adjacent channels	>45	>45
Homogeneity [dB]		<1	<1
Polarization stability [dB]		<0,2	<0,2
Directivity [dB]		>50	>50
Reflectance [dB]		>50	>50
Optical power [mW] *		<500	<500
Type of connectors		LC/PC	LC/PC
Operational temperature [°C]		-40 do 85	-40 do 85
LGX housing dimensions [width x height x depth mm]		56 x 130 x 158,5	

\*\* The given value does not take into account the attenuation caused by connectors and adapters

## Z-M-BOX

### ordering:

0	1	2	description
Z-M-BOX-			M-BOX set
	4-		Number of optical inserts for one transmission direction - 4
		1-	Cartridge bit rate configurations - all 1 Gb
		10-	Cartridge bit rate configurations - all 10 Gb
		1/10-	Cartridge Throughput Configurations - Half 1Gb, Half 10Gb
	8-		Number of optical inserts for one transmission direction - 8
		1-	Cartridge bit rate configurations - all 1 Gb
		10-	Cartridge bit rate configurations - all 10 Gb

### example:

Z-M-BOX 4-1/10 – M-BOX set with 2 Multiplexer and Demultiplexer systems, 4 CWDM Optical inserts 2x1Gb, 2x10Gb