



TMS 5x16 C Art. Number 318615



Cascade multiswitch for 1 Satellite position with 5 inputs and 5 trunk outputs, suitable for distributing satellite and terrestrial signals in small to large sized systems. Available with 16 subscriber outputs and powered by the TMS PSU external power supply either directly or via the SAT trunk lines.

Dependability guaranteed: a 6-year warranty is our guarantee that TRIAX's core values of reliability and innovation are the foundation of our new multiswitches.

The TMS 5x16 C offers excellent performance and flexibility, with a compact design for installations even in confined spaces.

Excellent performance

- Low insertion loss
- High isolation
- Low power consumption
- RED compliant
- ESD Protection

Flexibility

All the functionality you need in a simplified, streamlined range:

- Easier to select the right product
- Fewer products to stock
- Active/Passive Terrestrial Switch

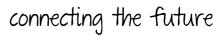
Convenience

Designed with installer convenience in mind:

- Equidistant F-connectors on all multiswitches
- Colour-coded input labels
- · LED power indicator

Technical Specifications

triax.com





Technical Specifications

EAN Number 5702663186156 CHARACTERISTICS LNB type Quattro Max. input level - SAT (IMD3 - 35dB) dBµV 98 dBµV Max. output level SAT @ -35 dB IMD3 dBµV 100 dBµV Max. output level SAT @ -35 dB IMD3 dBµV 100 dBµV Max. output level SAT @ -35 dB IMD3 dBµV 100 dBµV LNB current max. mA 3000 mA Switch commands DiSEqC 1.0/2.0, 13/18V, 0/22kHz FREQUENCY RANGE Frequency range TER MHz Active: 47862 / Passive: 5862 MHz Frequency range SAT MHz 9502200 MHz Gain - SAT (with 5 dB slope) dB -3+2 ± 2 dB Gain - SAT (with 5 dB slope) dB -3+2 ± 2 dB Gain - SAT (with 5 dB slope) dB -3+2 ± 2 dB Loss Loss Loss Loss Loss Loss of Bail (slope) dB -3+2 ± 2 dB Issue (slope) dB -3+2 ± 2 dB Issue (slope) dB -3.	ORDER INFORMATION	
LNB type Quattro Max. input level - SAT (IMD3 - 36dB) dBµV 98 dBµV Max. niput level - TER (IMD3 - 60dB) dBµV 90 dBµV Max. output level SAT @ -35 dB IMD3 dBµV 90 dBµV Max. output level TER @ -60dB IMD3 dBµV 90 dBµV LNB current max. mA 3000 mA Switch commands DISEQC 1.0/2.0, 13/18V, 0/22kHz FREQUENCY RANGE Frequency range TER MHz Active: 47862 / Passive: 5862 MHz Frequency range SAT MHz 9502200 MHz GAIN Gain - TER dB -3+2 ± 2 dB Gain - TER dB -3+2 ± 2 dB Gain - TER dB 27 ± 2 dB Insertion loss - trunkline SAT dB 4 ± 1 dB Insertion loss - trunkline TER dB 4 ± 1 dB Insertion loss - trunkline TER dB 3 0 dB Isolation SAT to TER dB 3 0 dB Isolation cross polarisation H/V dB 3 0 dB Isolation cross polarisation H/V dB 30 dB Isolation cross polarisation H/V dB 30	EAN Number	5702663186156
Max. input level - SAT (IMD3 - 304B) dBμV 98 dBμV Max. input level - TER (IMD3 - 604B) dBμV 90 dBμV Max. output level SAT @ -35 dB IMD3 dBμV 100 dBμV Max. output level SAT @ -604B IMD3 dBμV 3000 mA Switch commands DISEqC 1.0/2.0, 13/18V, 0/22kHz FREQUENCY RANGE Frequency range TER MHz Active: 47862 / Passive: 5862 MHz Frequency range SAT MHz 9502200 MHz Gain - SAT (with 5 dB slope) dB -3+2 ± 2 dB Gain - TER dB 0 ± 2 dB LOSS 4 ± 1 dB Insertion loss - trunkline SAT dB 4 ± 1 dB Insertion loss - trunkline TER dB 4 ± 1 dB Isolation SAT to TER dB 30 dB Isolation trunk to trunk dB 30 dB Isolation trunk to trunk dB 30 dB Isolation out-out SAT dB 30 dB Isolation out-out SAT dB 30 dB Isolation so SAT inputs dB >10 dB Return loss SAT inputs dB >10 dB Return loss SAT inputs dB >10 dB Return loss TER inputs dB >10 dB	CHARACTERISTICS	
Max. input level - TER (IMD3 - 60dB) dBµV 90 dBµV Max. output level SAT @ -35 dB IMD3 dBµV 90 dBµV Max. output level TER @ -60dB IMD3 dBµV 90 dBµV LNB current max. mA 3000 mA Switch commands DISEqC 1.0/2.0, 13/18V, 0/22kHz FREQUENCY RANGE Frequency range TER MHz Active: 47862 / Passive: 5862 MHz Frequency range SAT MHz 9502200 MHz GAIN Gain - SAT (with 5 dB slope) dB -3+2 ± 2 dB Gain - TER dB 0 ± 2 dB Loss Tap loss TER dB 27 ± 2 dB Insertion loss - trunkline SAT dB 4 ± 1 dB Insertion loss - trunkline TER dB 4 ± 1 dB Isolation SAT to TER dB 3 0 dB Isolation trunk to trunk dB 3 0 dB Isolation out-out SAT dB 3 0 dB Isolation out-out SAT dB 30 dB Isolation out-out SAT dB 25 dB Return loss SAT inputs dB >10 dB Return loss SAT outputs dB >10 dB Return loss TER inputs d	LNB type	Quattro
Max. output level SAT @ -35 dB IMD3 dBμV 90 dBμV LNB current max. mA 3000 mA Swilch commands DiSEqC 1.0/2.0, 13/18V, 0/22kHz FREQUENCY RANGE Frequency range TER MHz Active: 47862 / Passive: 5862 MHz Frequency range SAT MHz 9502200 MHz Galin - SAT (with 5 dB slope) dB -3+2±2 dB Gain - TER dB 0 ± 2 dB LOSS Loss TER dB Insertion loss - trunkline SAT dB 4 ± 1 dB Insertion loss - trunkline TER dB 3 ± 1 dB Isolation SAT to TER dB 3 0 dB Isolation trunk to trunk dB 3 0 dB Isolation out-out SAT dB 3 0 dB Isolation out-out SAT dB 30 dB Isolation sat Tinputs dB > 10 dB Return loss SAT inputs dB > 10 dB Return loss SAT inputs dB > 10 dB Return loss TER outputs dB > 10 dB Return loss TER outputs dB > 10 dB Return loss TE	Max. input level - SAT (IMD3 - 35dB) dBμV	98 dBμV
Max. output level TER @ -60dB IMD3 dBµV 90 dBµV LNB current max. mA 3000 mA Switch commands DISEQC 1.0/2.0, 13/18V, 0/22kHz FREQUENCY RANGE Frequency range TER MHz Active: 47862 / Passive: 5862 MHz Frequency range SAT MHz 9502200 MHz Gain - SAT (with 5 dB slope) dB -3+2 ± 2 dB Gain - TER dB 0 ± 2 dB LOSS Tap loss TER dB 27 ± 2 dB Insertion loss - trunkline SAT dB 4 ± 1 dB Insertion loss - trunkline SAT dB 4 ± 1 dB Insertion loss - trunkline SAT dB 3 0 dB Isolation sAT to TER dB > 30 dB Isolation trunk to trunk dB 30 dB Isolation cross polarisation H/V dB 30 dB Isolation out-out SAT dB 30 dB Isolation out-out SAT dB > 10 dB Return loss SAT inputs dB > 10 dB Return loss SAT inputs dB > 10 dB Return loss TER outputs dB	Max. input level - TER (IMD3 - 60dB) dBμV	90 dBµV
LNB current max. mA 3000 mA Switch commands DISEQC 1.0/2.0, 13/18V, 0/22kHz FREQUENCY RANGE Frequency range TER MHz Active: 47862 / Passive: 5862 MHz Frequency range SAT MHz 9502200 MHz GAIN Cash Gain - SAT (with 5 dB slope) dB -3+2±2 dB Gain - TER dB 0±2 dB LOSS LOSS Tap loss TER dB 27±2 dB Insertion loss - trunkline SAT dB 4±1 dB Insertion loss - trunkline SAT dB 4±1 dB Insertion loss - trunkline TER dB 30 dB Isolation SAT to TER dB 30 dB Isolation trunk to trunk dB 30 dB Isolation cross polarisation H/V dB 30 dB Isolation out-out SAT dB 30 dB Isolation out-out SAT dB 30 dB Isolation out-out TER dB 25 dB Return loss SAT inputs dB >10 dB Return loss SAT outputs dB >10 dB Return loss TER outputs dB >10 dB Return loss TAP outputs dB >10 dB Return lo	Max. output level SAT @ -35 dB IMD3 dBμV	100 dBμV
Switch commands DISEQC 1.0/2.0, 13/18V, 0/22kHz FREQUENCY RANGE Frequency range TER MHz Active: 47862 / Passive: 5862 MHz Frequency range SAT MHz 9502200 MHz GAIN GAIN GAIN (with 5 dB slope) dB -3+2 ± 2 dB Gain - TER dB A 3+2 ± 2 dB Gain - TER dB A 27 ± 2 dB Insertion loss - trunkline SAT dB 4 ± 1 dB Insertion loss - trunkline SAT dB 4 ± 1 dB Insertion loss - trunkline TER dB 4 ± 1 dB Insertion loss - trunkline TER dB 4 ± 1 dB Insertion loss - trunkline TER dB > 30 dB Isolation source of TER dB > 30 dB Isolation trunk to trunk dB 30 dB Isolation out-out TER dB 25 dB RETURN LOSS Return loss SAT inputs dB > 10 dB R	Max. output level TER @ -60dB IMD3 dBμV	90 dBµV
FREQUENCY RANGE Frequency range TER MHz Active: 47862 / Passive: 5862 MHz Frequency range SAT MHz 9502200 MHz GAIN ————————————————————————————————————	LNB current max. mA	3000 mA
Frequency range TER MHz Active: 47862 / Passive: 5862 MHz Frequency range SAT MHz 9502200 MHz GAIN Gain - SAT (with 5 dB slope) dB -3+2 ± 2 dB Gain - TER dB 0 ± 2 dB LOSS Tap loss TER dB 27 ± 2 dB Insertion loss - trunkline SAT dB 4 ± 1 dB Insertion loss - trunkline SAT dB 4 ± 1 dB Insertion loss - trunkline SAT dB 4 ± 1 dB Insertion loss - trunkline SAT dB 30 dB Isolation loss - trunkline SAT dB 30 dB Isolation loss TER dB 30 dB Isolation Loss TER dB 30 dB Isolation cross polarisation H/V dB 30 dB Isolation out-out SAT dB 30 dB Isolation out-out TER dB 25 dB RETURN LOSS Return loss SAT inputs dB >10 dB Return loss TER outputs dB >10 dB Return loss TER outputs dB 10 dB Return loss TAP outputs	Switch commands	DiSEqC 1.0/2.0, 13/18V, 0/22kHz
Frequency range SAT MHz 9502200 MHz GAIN Gain - SAT (with 5 dB slope) dB -3+2 ± 2 dB Gain - TER dB 0 ± 2 dB LOSS Tap loss TER dB Insertion loss - trunkline SAT dB 4 ± 1 dB Insertion loss - trunkline TER dB 4 ± 1 dB Isolation loss - trunkline TER dB 30 dB Isolation SAT to TER dB > 30 dB Isolation trunk to trunk dB 30 dB Isolation out-out SAT dB 30 dB Isolation out-out TER dB 30 dB Isolation out-out TER dB 30 dB Isolation out-out TER dB 30 dB Isolation sAT inputs dB 30 dB Return loss SAT inputs dB >10 dB Return loss TER outputs dB >10 dB Return loss TER outputs dB >10 dB Return loss TAP outputs dB >10 dB Return loss TAP outputs dB 70 dB ELECTRICAL To A Impedance Ω 75 Ω OPERATIONAL LINE power DC voltage (max.) VDC 1520 VDC LINE power	FREQUENCY RANGE	
GAIN Gain - SAT (with 5 dB slope) dB -3+2 ± 2 dB Gain - TER dB 0 ± 2 dB LOSS Tap loss TER dB 27 ± 2 dB Insertion loss - trunkline SAT dB 4 ± 1 dB Insertion loss - trunkline TER dB 4 ± 1 dB Isolation loss - trunkline TER dB 4 ± 1 dB Isolation SAT to TER dB 30 dB Isolation SAT to TER dB > 30 dB Isolation trunk to trunk dB 30 dB Isolation out-out SAT dB 30 dB Isolation out-out SAT dB 30 dB Isolation out-out TER dB >10 dB Return loss SAT outputs dB >10 dB Return loss TER inputs dB >10 dB	Frequency range TER MHz	Active: 47862 / Passive: 5862 MHz
Gain - SAT (with 5 dB slope) dB -3+2±2 dB Gain - TER dB 0±2 dB LOSS Tap loss TER dB 27±2 dB Insertion loss - trunkline SAT dB 4±1 dB Insertion loss - trunkline TER dB 4±1 dB ISOLATION Isolation SAT to TER dB Isolation SAT to TER dB > 30 dB Isolation runk to trunk dB 30 dB Isolation out-out SAT dB 30 dB Isolation out-out TER dB 25 dB RETURN LOSS Return loss SAT inputs dB Return loss SAT outputs dB >10 dB Return loss TER inputs dB >10 dB Return loss TER outputs dB >10 dB Return loss TAP outputs dB 10 dB Return loss TAP outputs dB 10 dB Return loss TAP outputs dB 10 dB Return loss TAP outputs dB 50 dB Return loss TAP outputs dB 10 dB <td>Frequency range SAT MHz</td> <td>9502200 MHz</td>	Frequency range SAT MHz	9502200 MHz
Gain - TER dB 0 ± 2 dB LOSS Tap loss TER dB 27 ± 2 dB Insertion loss - trunkline SAT dB 4 ± 1 dB Insertion loss - trunkline TER dB 4 ± 1 dB ISOLATION Isolation SAT to TER dB > 30 dB Isolation trunk to trunk dB > 30 dB Isolation out-out SAT dB 30 dB Isolation out-out TER dB 30 dB Isolation out-out TER dB 25 dB RETURN LOSS Return loss SAT inputs dB >10 dB Return loss SAT outputs dB >10 dB Return loss TER inputs dB >10 dB Return loss TER outputs dB >10 dB Return loss TAP outputs dB 10 dB ELECTRICAL To D Impedance Ω 75 Ω OPERATIONAL LINE power DC voltage (max.) VDC 1520 VDC LINE power current (max.) mA 2000 mA PSU output DC voltage VDC 18 VDC	GAIN	
LOSS Tap loss TER dB 27 ± 2 dB Insertion loss - trunkline SAT dB 4 ± 1 dB Insertion loss - trunkline TER dB 4 ± 1 dB ISOLATION Isolation SAT to TER dB > 30 dB Isolation trunk to trunk dB > 30 dB Isolation out-out SAT dB 30 dB Isolation out-out TER dB 30 dB Isolation out-out TER dB 25 dB RETURN LOSS Teturn loss SAT inputs dB Return loss SAT outputs dB > 10 dB Return loss TER inputs dB > 10 dB Return loss TER outputs dB > 10 dB Return loss TAP outputs dB > 0 dB	Gain - SAT (with 5 dB slope) dB	-3+2 ± 2 dB
Tap loss TER dB	Gain - TER dB	0 ± 2 dB
Insertion loss - trunkline SAT dB	LOSS	
Insertion loss - trunkline TER dB	Tap loss TER dB	27 ± 2 dB
ISOLATIONIsolation SAT to TER dB> 30 dBIsolation trunk to trunk dB> 30 dBIsolation cross polarisation H/V dB30 dBIsolation out-out SAT dB30 dBIsolation out-out TER dB25 dBRETURN LOSSReturn loss SAT inputs dB>10 dBReturn loss SAT outputs dB>10 dBReturn loss TER inputs dB>10 dBReturn loss TER outputs dB>10 dBReturn loss TAP outputs dB10 dBReturn loss TAP outputs dB10 dBELECTRICALTo DPERATIONALLINE power DC voltage (max.) VDC1520 VDCLINE power current (max.) mA2000 mAPSU output DC voltage VDC18 VDC	Insertion loss - trunkline SAT dB	4 ± 1 dB
Isolation SAT to TER dB	Insertion loss - trunkline TER dB	4 ± 1 dB
Isolation trunk to trunk dB	ISOLATION	
Isolation cross polarisation H/V dB 30 dB Isolation out-out SAT dB 30 dB Isolation out-out TER dB 25 dB 25 dB Isolation out-out TER dB 25	Isolation SAT to TER dB	> 30 dB
Isolation out-out SAT dB 30 dB Isolation out-out TER dB 25 dB RETURN LOSS Return loss SAT inputs dB >10 dB Return loss SAT outputs dB >10 dB Return loss TER inputs dB >10 dB Return loss TAP outputs dB 10 dB Return loss TAP outputs dB 10 dB ELECTRICAL Impedance Ω 75 Ω OPERATIONAL LINE power DC voltage (max.) VDC 1520 VDC LINE power current (max.) mA 2000 mA PSU output DC voltage VDC 18 VDC	Isolation trunk to trunk dB	> 30 dB
Isolation out-out TER dB 25 dB RETURN LOSS Return loss SAT inputs dB >10 dB Return loss SAT outputs dB >10 dB Return loss TER inputs dB >10 dB Return loss TAP outputs dB 10 dB Return loss TAP outputs dB 10 dB ELECTRICAL 75 Ω Impedance Ω 75 Ω OPERATIONAL LINE power DC voltage (max.) VDC 1520 VDC LINE power current (max.) mA 2000 mA PSU output DC voltage VDC 18 VDC	Isolation cross polarisation H/V dB	30 dB
Return loss SAT inputs dB	Isolation out-out SAT dB	30 dB
Return loss SAT inputs dB >10 dB Return loss SAT outputs dB >10 dB Return loss TER inputs dB >10 dB Return loss TAP outputs dB 10 dB ELECTRICAL Impedance Ω 75 Ω OPERATIONAL LINE power DC voltage (max.) VDC 1520 VDC LINE power current (max.) mA 2000 mA PSU output DC voltage VDC 18 VDC	Isolation out-out TER dB	25 dB
Return loss SAT outputs dB>10 dBReturn loss TER inputs dB>10 dBReturn loss TER outputs dB>10 dBReturn loss TAP outputs dB10 dBELECTRICALImpedance Ω75 ΩOPERATIONALLINE power DC voltage (max.) VDC1520 VDCLINE power current (max.) mA2000 mAPSU output DC voltage VDC18 VDC	RETURN LOSS	
Return loss TER inputs dB >10 dB Return loss TER outputs dB >10 dB Return loss TAP outputs dB 10 dB ELECTRICAL Impedance Ω 75 Ω OPERATIONAL LINE power DC voltage (max.) VDC 1520 VDC LINE power current (max.) mA 2000 mA PSU output DC voltage VDC 18 VDC	Return loss SAT inputs dB	>10 dB
Return loss TER outputs dB	Return loss SAT outputs dB	>10 dB
Return loss TAP outputs dB	Return loss TER inputs dB	>10 dB
ELECTRICAL Impedance $Ω$ 75 $Ω$ OPERATIONAL LINE power DC voltage (max.) VDC 1520 VDC LINE power current (max.) mA 2000 mA PSU output DC voltage VDC 18 VDC	Return loss TER outputs dB	>10 dB
Impedance Ω 75 Ω OPERATIONAL LINE power DC voltage (max.) VDC 1520 VDC LINE power current (max.) mA 2000 mA PSU output DC voltage VDC 18 VDC	Return loss TAP outputs dB	10 dB
OPERATIONAL LINE power DC voltage (max.) VDC	ELECTRICAL	
LINE power DC voltage (max.) VDC 1520 VDC LINE power current (max.) mA 2000 mA PSU output DC voltage VDC 18 VDC	Impedance Ω	75 Ω
LINE power current (max.) mA 2000 mA PSU output DC voltage VDC 18 VDC	OPERATIONAL	
PSU output DC voltage VDC 18 VDC	LINE power DC voltage (max.) VDC	1520 VDC
	LINE power current (max.) mA	2000 mA
ESD protection 4KV inputs & sub outputs	PSU output DC voltage VDC	18 VDC
the state of the s	ESD protection	4KV inputs & sub outputs

15-02-2022 2/3 triax.



connecting the future

Technical Specifications

DC Current consumption | mA 30mA TER passive mA

200mA TER active

PSU/adapter Art number 318162, 18163, 318164

Max. current to each output (supplied by set top

box) | mA

<50 mA

Control LEDs Green LED (Power)

Temperature - operating | °C -20...+55 °C

CONNECTORS

Connector Type F-female

Connector DC F-female

Number of trunk inputs 4 SAT, 1 TER

Number of trunk outputs 4 SAT, 1 TER

Subscriber outputs 16

Colorcoding @IF/TER inputs VL=Black, VH=Red, HL=Green, HH=Yellow, White=TER

MECHANICAL

Main material Steel housing

Packing QTY 1

Product Height | mm 175 mm 140 mm Product Width | mm Product Depth | mm 65 mm Packaging Height | m 0.070 m 0.190 m Packaging Width | m Packaging Depth | m 0.150 m Packaging Volume | m3 0.000 m3 Net Weight | kg 0.565 kg Tara Weight | kg 0.114 kg Total Weight | kg 0.679 kg

15-02-2022 3/3 triax.com