



COMPATIBILITY BETWEEN MPDSnC and MDSnC *Compatibilité entre MPDSnC et MDSnC*

Page
:
1 / 4

MPDS vs MDS Compatibility description

MDSnC technology will be obsolete at the end of 2016. New technology of drivers called MPDS (Multi Purposes Digital Synthesizers) will replace the obsolete parts.

This paper is intended to describe the differences between both technologies and provide the compatibility information to help user to set up the replacement technology.

In case of any question please contact AA SA: sales@a-a.fr.



Ed.	Par / By (Position)	Date	Observation
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Page
:
2 / 4

MPDS vs MDS Compatibility description

General

	Compatible	Remarks
EXTERNAL SIZE OEM VERSION	NO	MPDS Smaller
EXTERNAL SIZE RACK VERSION	YES	
FIXATION HOLES	NO	For OEM version
ELECTRICAL CONNECTORS	PARTIALLY	RS232 (DB9) connector removed - connections on DB25
EXTERNAL CONTROL SIGNALS	YES	MOD IN, BLANKING, Power (supply a little more consumption)
USB/RS232 COMMUNICATION	PARTIALLY	MPDS communication speed set at 57600 Bauds
USB/RS232 PROTOCOLE*	YES	Command P (keyboard) between 0-->63 for MPDS / 0-->1023 for MDS Command LxPpppp compatible between MDS and MPDS
USB/RS232 PC SOFTWARE (AA)	NO	V 3.01 for MDS, V 2.01 for MPDS
<p>*A program developped for MDSnC will be usable for MPDSnC at the condition to not use the keyboard command P (can be replaced by command LxPpppp) and to set speed of communication to 57600 bauds instead of 19200.</p>		

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COMPATIBILITY BETWEEN MPDSnC and MDSnC *Compatibilité entre MPDSnC et MDSnC*

Page
:
3 / 4

MPDS vs MDS Compatibility description

Pin connections

MPDS	Pin connections DB25	Modulation inputs & Power supply
	1	TX (RS232)
	2	RX (RS232)
	3	RAMP OUT 0-3V3 (Sweep fct)
	4	Enable (1)/Latch(0) Pin Profile
	5	Line 8
	6	Line 7
	7	Line 6
	8	Line 5
	9	Line 4
	10	Line 3
	11	Line 2
	12	Line 1
	13	Blanking
	14,15,16	Ground
	17	Reset
	18	Bit 0 (LSB) Pin Profile
	19	Bit 1 Pin Profile
	20	Bit 2 (MSB) Pin Profile
	21	OPT FCT1
	22	OPT FCT2
	23, 24, 25	24 VDC/850-900mA for 8C

MDS	Pin connexions DB 25	Modulation inputs &Power supply
	1, 2, 3, 4	N. C.
	5	Line 8
	6	Line 7
	7	Line 6
	8	Line 5
	9	Line 4
	10	Line 3
	11	Line 2
	12	Line 1
	13	Blanking
	14,15,16	Ground
	17	Reset (see 1NOT06010)
	18,19,20,21,22	N. C.
	23,24,25	24 VDC/900-950mA for 8C

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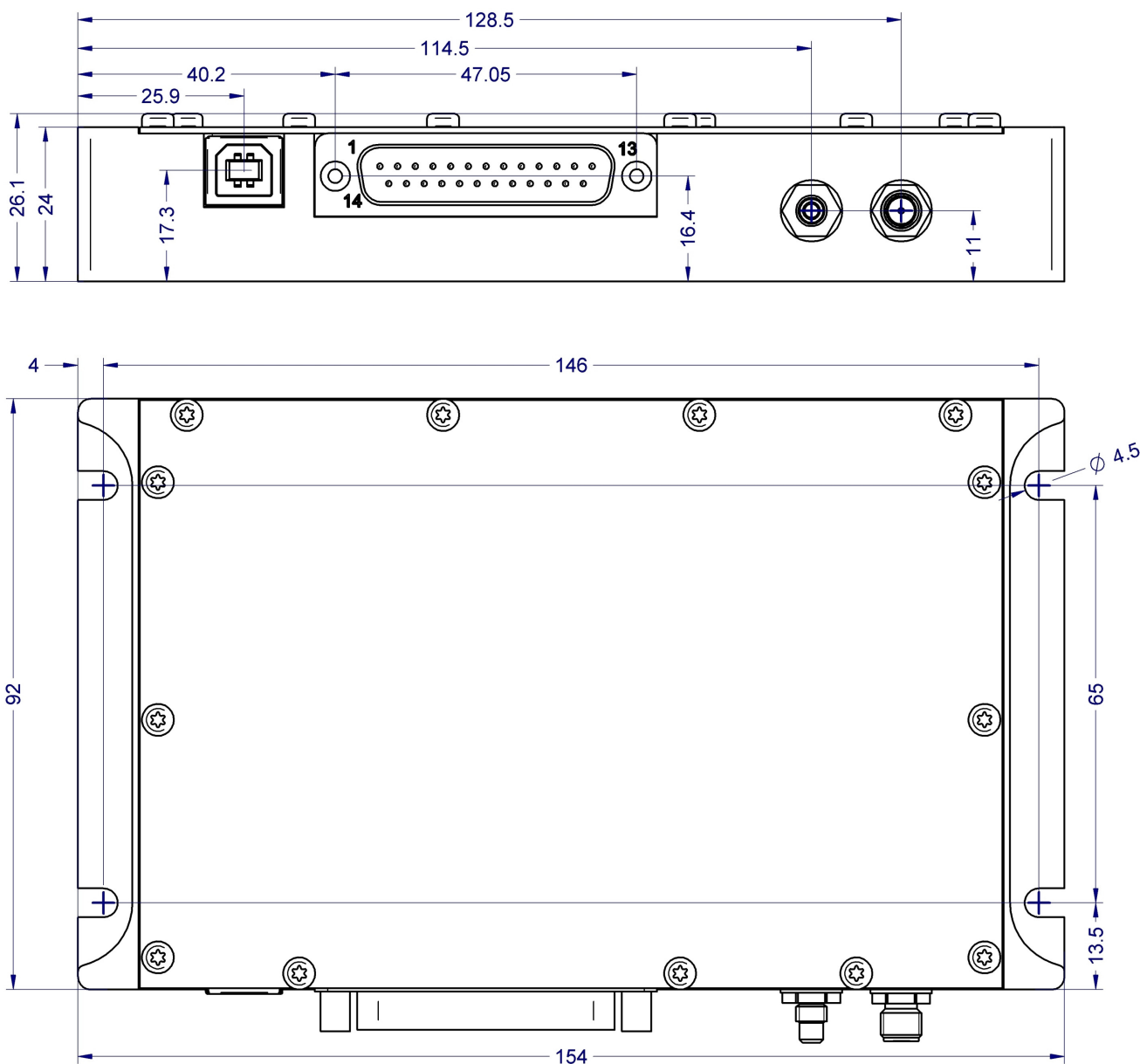
COMPATIBILITY BETWEEN MPDSnC and MDSnC *Compatibilité entre MPDSnC et MDSnC*

Page
:
4 / 4

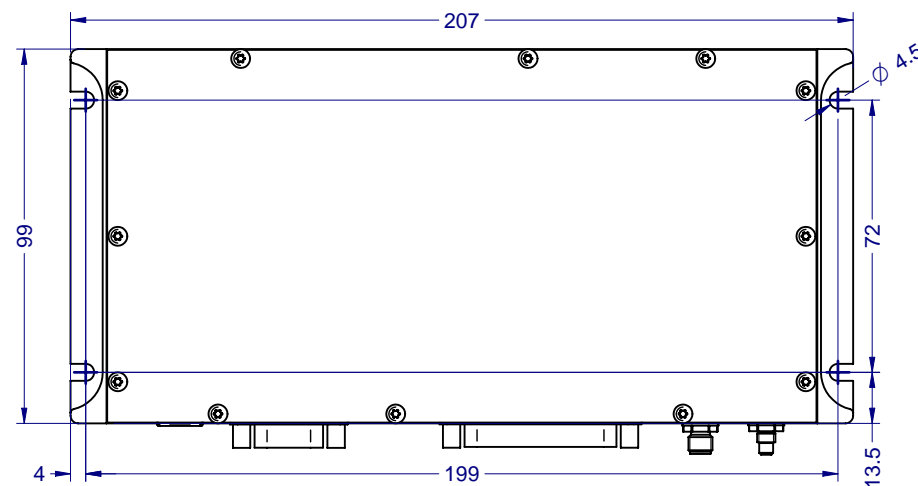
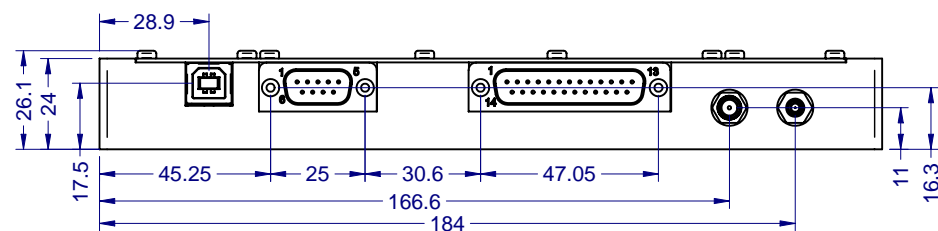
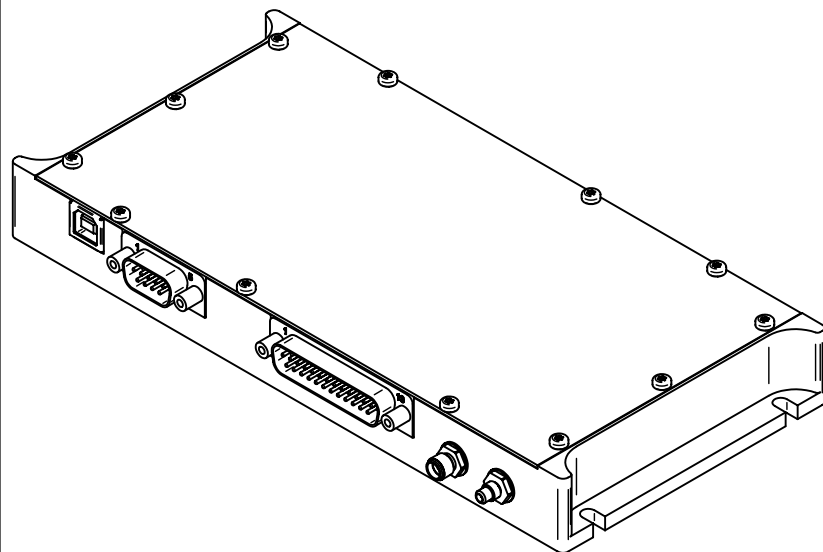
MPDS vs MDS Compatibility description

Mechanical drawings (OEM versions, mm)

MPDS (1C, 4C, 8C)

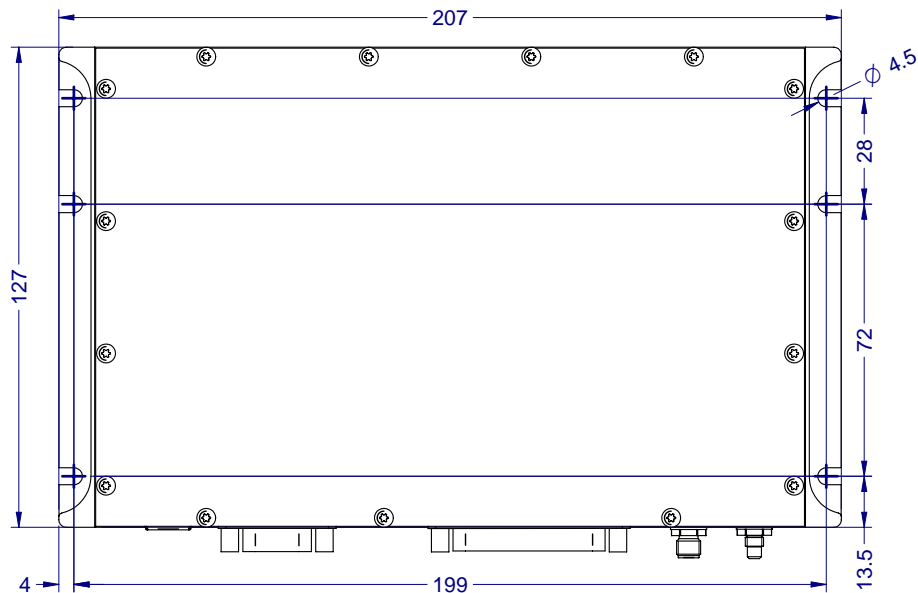
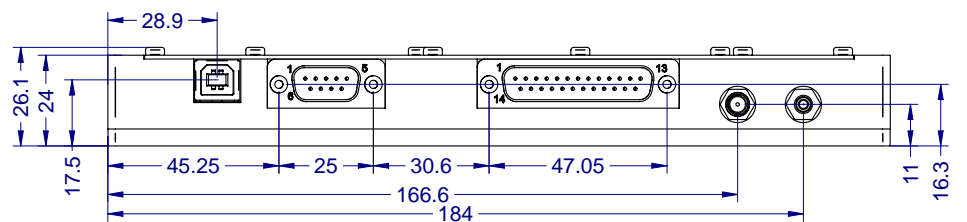
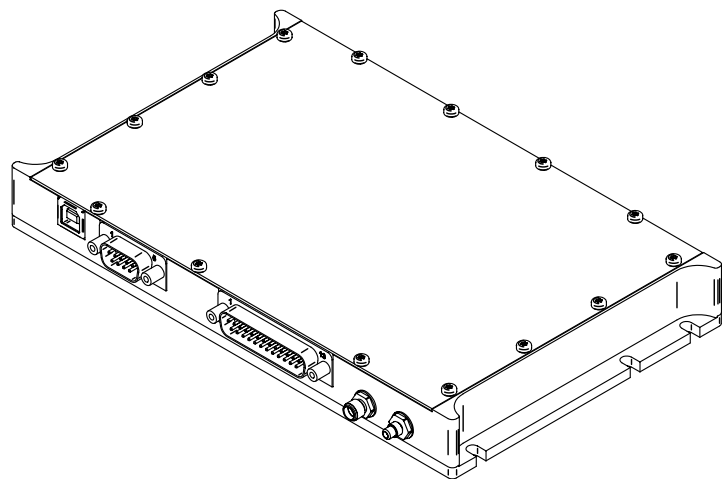




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					<u>Dessiné par</u>	<u>Vérifié par</u>	Cotes après traitement sauf contre indications	Tolérances: ±0.1mm < ±1° √ 3.2µm	
				Nom:	Saint-Jean T.				
				Date:	19/02/2009				
				Matière:					
				Traitement /Finition:					
				Titre: MDS 1C 4C					
0	Création	19/02/09	T.S	N° 1MODD09008.0055			Ech:		
Ind.	Description	Date	Visa	Plan Plan d'Ensemble			Page 1/1		

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					<u>Dessiné par</u>	<u>Vérifié par</u>	Cotes après traitement sauf contre indications	Tolérances: $\pm 0.1\text{mm}$ $\leq \pm 1^\circ$ $\sqrt{3.2\mu\text{m}}$	
				Nom:	Saint-Jean T.				
				Date:	18/02/2009				
				Matière:					
				Traitement /Finition:					
				Titre: MDS 8C					
0	Création	18/02/09	T.S	N° 1MODD09005.0055			Ech:		
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