



Connects sensors, IoT modules and sensors to the cloud

- ▶ Based on the STM32MP1 DHCOR, the DRC Compact represents a cost-effective and performant unit
- ▶ DIN Rail Controller (DRC) connects sensors, IoT modules and smart devices to the cloud
- ▶ Allows data filtering, visualization and complex analysis
- ▶ Features all common network and industrial interfaces such as RS485, RS232, CAN, Ethernet, USB, WiFi and BT
- ▶ Operating system is Mainline Linux Debian or Yocto
- ▶ Guaranteed long-term availability of 10+ years

Technical Data

CPU details

CPU name	STM32MP15
CPU type	Dual Cortex-A7 and Cortex-M4
CPU clock	up to 800 MHz and up to 209 MHz
BSP	Linux (Debian, Yocto)

Interfaces

Ethernet	1x 10 / 100 1x 10 / 100 / 1000 Mbit/s
USB host	1x High-speed
Serial interfaces	1x RS485 isolated, 1x RS232 or RS485 1x Debug UART internal
Micro SD	4-bit micro SD card
CAN	1x CAN (up to 1 Mbaud)

HMI

LEDs	3x status
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Physical

Dimensions	128 x 17.5 x 94.2 mm
Weight	120 g
Power supply	10.8 to 26.4 VDC
Battery for RTC	CR2032 (optional)
Typ. power consumption	3.0 W
Operating temperature	0 to +50 °C
Storage temperature	-20 to +70 °C
Certifications	EN 61131 EN 61000-6-2 EN 61000-6-3
IP protection	IP30

Configurations

Item Number	Model (other configurations on request)	Product description
FD000xx	DHCON-DRC-C-SA-S-STM32MP153C-R051-F0819-RS485-E2-uSD-RTC[B]-C-01	DHCON DRC Compact, stand alone, standard print, STM32MP153C, 512MByte RAM, 8192MByte eMMC, second RS485. second Ethernet port, uSD card socket, battery puffered RTC, 0 to +50°C, revision 01
FD000xx	DHCON-DRC-C-SA-S-STM32MP153C-R051-F0819-RS232-E2-uSD-RTC[B]-C-01	DHCON DRC Compact, stand alone, standard print, STM32MP153C, 512MByte RAM, 8192MByte eMMC, RS232. second Ethernet port, uSD card socket, battery puffered RTC, 0 to +50°C, revision 01
FD000xx	DHCON-DRC-C-SA-S-STM32MP153C-R051-F0819-CAN-E2-uSD-RTC[B]-C-01	DHCON DRC Compact, stand alone, standard print, STM32MP153C, 512MByte RAM, 8192MByte eMMC, CAN. second Ethernet port, uSD card socket, battery puffered RTC, 0 to +50°C, revision 01

* Other configurations on request

What is the model number for ordering?

DHCON-TYPE-HO-PANEL[-CPU][-Rxxx][-Fxxxx][SERIAL][-E[x]x][-uSD][-RTC[x]][-W][BT]-X-01

TYPE	DRC0x, DRC-X-[MODULE], DRC-C
HO	SA: stand alone, OF: open frame
PANEL	S: standard printing on panel, N: no printing on panel
X	C: commercial temperature range (0 °C to 50 °C), E: extended commercial temperature range (-20 °C to 70 °C)
01	Revision 01
Options	
[-CPU]	STM32MP151A, STM32MP153C, STM32MP157A, STM32MP157C, ...
[-Rxxx]	RAM memory size in 10 MB steps: i.e. R006 = 64 MB, R012 = 128 MB
[-Fxxxx]	Flash memory size in 10 MB steps: i.e. F0006 = 64 MB, F0012 = 128 MB
[-SERIAL]	CAN: CAN Bus, RS485: RS485 Bus, RS232: RS232
[-E[x]]	Ethernet [2]U: 2nd Ethernet 100MBit Ethernet port
[-uSD]	MicroSD-Card socket
[-RTC[x]]	RTC[B]: Battery
[-W][BT]	WiFi & BT