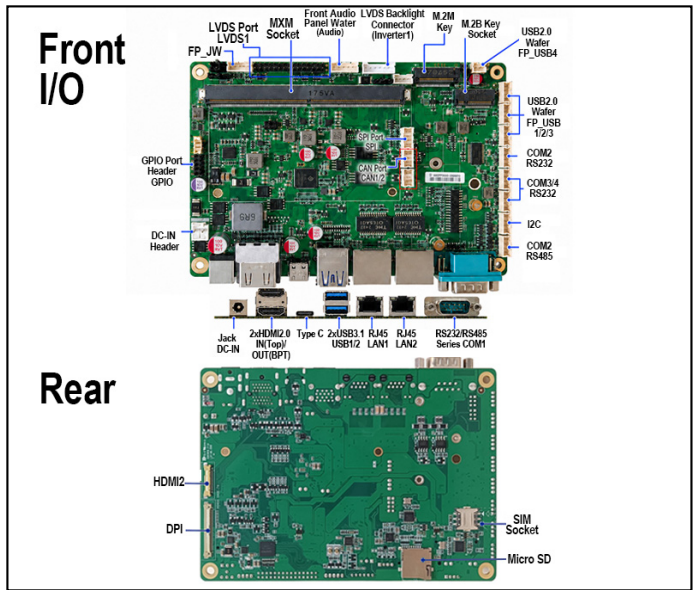


DF35-CRB2-358800A2



3.5"

SMARC RK3588 Carrier Board with Dual GbE, HDMI Input/Output and Isolated CAN Bus



Features

- Supports SMARC ARM CPU modules
- 2 x USB 3.1 Gen 1 and 4 x USB 2.0 with high-speed connectivity
- 2 x RS232 + 2 x RS485 or 4 x RS232 with flexible serial communication
- 1 x HDMI® input and 1 x HDMI® 2.1 output with high-resolution display support
- 2 x USB Type-C supporting USB 3.1, DisplayPort 1.4, and OTG
- 1 x 24-bit dual-channel LVDS with industrial display support
- 1 x eDP with embedded display support
- 2 x RJ45 with reliable Ethernet connectivity
- 2 x CAN Bus with 5 kV isolation protection

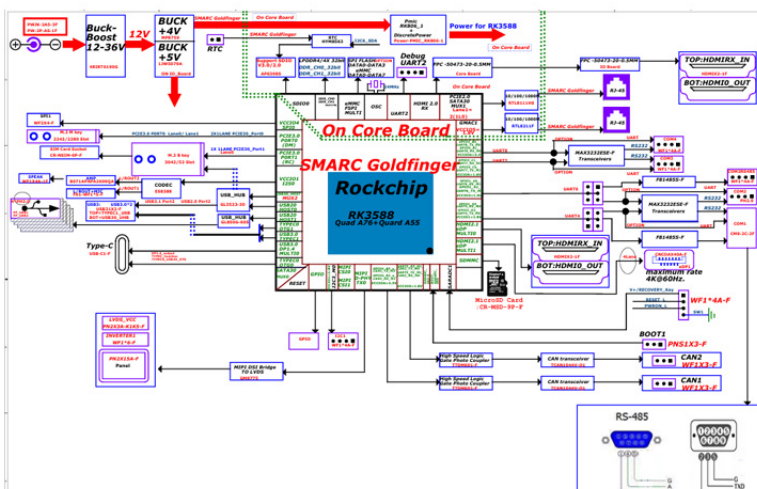
Packing List

PART NUMBER	DESCRIPTION	QTY
Part Number	Description	QTY per Board
—	DF35-CRB2-ARM00A2 SMARC ARM CARRIER BOARD	1

Specifications

SYSTEM	
MB FORM FACTOR	3.5"
CPU	For SMARC RK3588 Carrier board
WAKE ON LAN	Yes
WATCHDOG TIMER	255 Levels
DIMENSION (W X D)	148.0 (W) x 102.0 (D) mm (5.8" x 4.0")
OS SUPPORT	Android 12.0, Linux Debian 11.0, Ubuntu 22.04, Harmony
POWER	
POWER REQUIREMENT	DC-in 12-36V
CONNECTOR	DC Jack Internal 2-pin Header
DISPLAY	
LVDS	1 x LVDS (Max. Resolution: 1920 x 1200 @60Hz)
eDP	1 x eDP (Option, Max. Resolution: 4096 x 2304@60Hz)
Type-C DP	1 x Type-C DP1.4a (Max Resolution: 4096 x 2304@60Hz)
HDMI®	1 x HDMI® 2.1 (Max Resolution: 4096 x 2304@60Hz)
MULTIPLE DISPLAY	Support 4 Displays
AUDIO	
CODEC	2-channel HD Audio
AMPLIFIER	3W
USB PORT	
USB	Internal Header for 4 x USB 2.0 2 x USB 3.1 Gen1 Type-C, DP Alt Mode/OTG
SERIAL PORT	
COM	Internal Header for 2 x RS-232 Internal Header for 1 x RS-422/485 1 x DB-9 for RS-232/485
INTERNAL I/O	
GPIO	8-Bit
I2C	Yes
FRONT PANEL	Audio
ADDITIONAL	1 x FP_JW 1 x Inverter 1 x HDMI® in 2 x CAN BUS Header(Support 5KV Isolation) 1 x SPI 1 x Speaker header
EXPANSION	
M.2	1 x M-Key 2242/2280 (PCIe x2) support SSD 1 x B-Key 3052 (USB 3.0 / PCIe 3.0 x1) for 4G/5G Module
SIM	1 x Nano SIM Card Slot + 1 x Micro SD
OTHERs	
OTHER	1 x MXM Socket for SMARC ARM CPU Module
ENVIRONMENT & CERTIFICATION	
SHOCK	15G, 11ms duration
OPERATING TEMPERATURE	-20°C ~ 60°C (-4°F ~ 140°F)
STORAGE TEMPERATURE	-30°C ~ 70°C (-22°F ~ 158°F)
CERTIFICATION	CE/FCC Class A LVD
ESG DECLARATION	EU RoHS, China RoHS

Block Diagram



Dimension Unit: mm

