



PIN CONNECTIONS(CON1)

Pin	Symbol			
	SPI	UART	RS232	USB
1	V _{SS}	V _{SS}	V _{SS}	V _{SS}
2	V _{DD}	V _{DD}	V _{DD}	V _{DD}
3	NC	NC	TX	D-
4	SDI	RX	RX	D+
5	SCLK	NC	NC	NC
6	BUSY	BUSY	NC	NC
7	/REST	/REST	NC	NC
8	/CS	NC	NC	NC

PIN CONNECTIONS(CON4 Mini-USB)

Pin	1	2	3	4	5
Symbol	V _{DD}	D-	D+	NC	V _{SS}

NOTES:

- +5V/+3.3V power supply optional
- SPI, UART, RS232, USB interface optional
- Display color: GREEN optional

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	144.0×104.0×10.0	mm
Viewing Area (W x H)	109.2×58.01	mm
Dot Pitch (W x H)	0.415×0.43	mm
Dot Size (W x H)	0.385×0.40	mm

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage (Logic)	V _{DD} -V _{SS}	-0.3	5.5	V
Input Voltage	V _I	V _{SS}	V _{DD}	V
Operating Temp.	T _{OPR}	-40	80	°C
Storage Temp.	T _{STG}	-40	80	°C

ELECTRICAL CHARACTERISTICS (V_{DD}=3.3V, Ta=25°C)

Item	Symbol	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}	0.8 V _{DD}	-	-	V
Input Low Voltage	V _{IL}	-	-	0.2V _{DD}	V
Output High Voltage	V _{OH}	0.9 V _{DD}	-	-	V
Output Low Voltage	V _{OL}	-	-	0.1V _{DD}	V
Supply Current	I _{DD}	-	340	-	mA
		50% display area on, V _{DD} =3.3V			