One touch ahead

6,5"

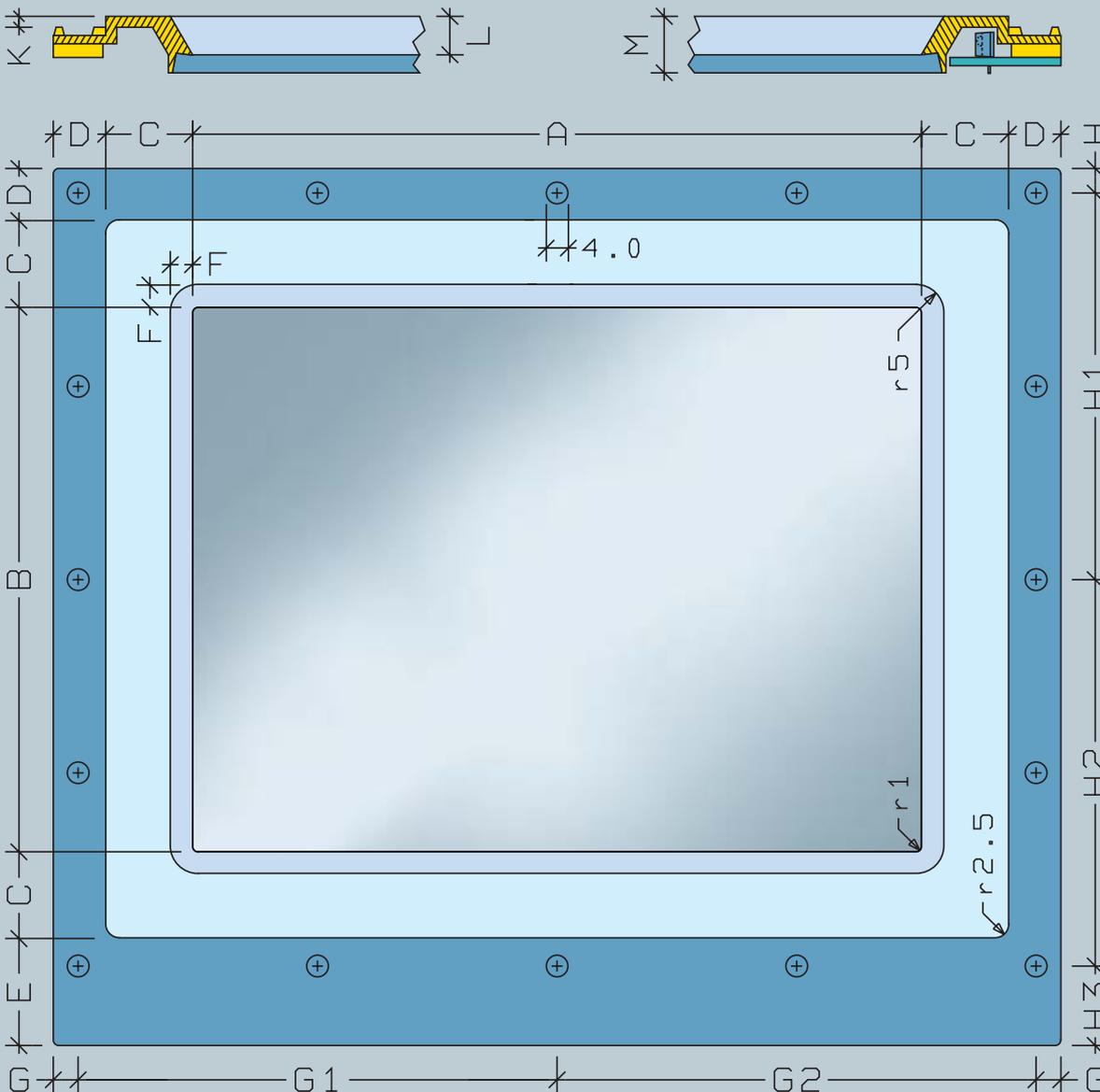## Specifications
IRT6i5-V2.0

Citron
Creative Industrial Electronic Systems

Electrical Specs		
	Voltage	+5,0V (±5%)
	Current (dozing)	134mArms
	Current (typical operating)	165mArms
	Current (worst case)	219mArms

Communication Specs		
	Communication	Bi-directional, asynchronous, EIA-232-D and TTL
	Baud Rate, Parity	75 to 38 400 bps Automatic baud rate and parity detection
	Protocol	XON/XOFF

Operational Specs		
	Active Touch Area	132,1 x 96,5 mm
	Touchpoint Density	16 tps/cm^2 64 tps/cm^2 interpolated
	Response time	8 - 10 ms
	Touch points	Simultaneous tracking of two tochpoints
	Stylus Diameter	≥6mm, >8mm for interpolation
	Touch Modes	Up to 284 polygonal areas with individual touch modes: enter, exit, tracking, continous, Z-Press. Up to 64 area pages
	Software Drivers	MS-DOS, Windows 3.11, Windows 95/98, Windows NT 4.0, OS/2, Linux
	Diagnostics	Complete system test at power-on, cyclic beam test during operation

Environmental Specs		
	Operating Temperature	0°C to +70°C –20°C to +85°C (optional)
	Storage Temperature	–20°C to +85°C
	Humidity	90% RH @ 70°C, non-condensing
	Altitude	tbd
	Shock (MIL-STD-810E)	tbd
	Vibration (MIL-STD-810E)	tbd
	Sealing (EN 60529)	>IP65
	Peak Output Wavelength	950 nm, infrared
	Ambient light	Unaffected
	Transmissivity	Up to 100 %, depending on filter screen
	MTBF (MIL-HDBK-217F,@ 25°C)	>500.000 h
	EMI	EN 50 081-1,2 EN 55 022, Class B
	ESD	EN 50082-1,2

Mechanical Specs		
	Total size Controller & Bezel	W 186,0 x H 163,0 x D 10,3 mm
	Maximum component height	2,5 mm
	Maximum IR-Element height	5,5 mm
	Weight Controller	70 g
	Weight Bezel (no filter screen)	52 g
	Bezel material	PMMA (acrylic glass)
	Connectors	X1: 20-pin, JAE, LZ-20P-SL-SMT

Peripherals	
	1 opto-isolated PWM output for backlight dimming
	1 opto-isolated output for touch saver indication or GP use
	1 opto-isolated input for touchpoint validation or GP use

Options		
	Z–axis	64 Levels

Connector Pinout:

X1/							
1	+5V	6	RxD_TTL	11	OC_PWM	16	GND
2	+5V	7	TxD_TTL	12	+Uh	17	/RESEXT
3	GND	8	RxD_RS232	13	/GP_OUT	18	/BOOT
4	GND	9	TxD_RS232	14	GP_IN+	19	n.c.
5	GND	10	COM_EMIT	15	GP_IN–	20	n.c.

Touch Bezel Specifications

Material	Polymethymetacrylat (PMMA) Plexiglas	Scratch hardness Hr (acc. to Martens)	0,025N
Rockwell hardness (ASTM D 785-62)	M93 (Scale R)	Dielectric strength	30kV/mm
Chemical Resistance	Data upon request	Optical transmission factor (DIN 5036, @3mm, 380-780nm)	92%

A	B	C	D	E	F	K	L	M
135.4	102.4	15.8	9.5	19.5	4.0	2.0	7.0	10.3

G	G1	G2			H	H1	H2	H3
4.5	88.5	88.5			4.5	72.0	72.0	14.5

all dimensions in mm