

**Complete, Single Powered, Isolated,
Dual RS-232 Driver/Receiver Module**

Features ♦ Isolated RS232 Data Interface ♦ No External Components ♦ Single 5V Supply ♦ 2 x Tx and 2 x Rx Channels ♦ 38.4kbps and 1000V Isolation ♦ RoHs compliant				<table><tr><td>LOGIC OUT1</td><td>1</td><td>40</td><td>NC</td></tr><tr><td>NC</td><td>2</td><td>39</td><td>NC</td></tr><tr><td>NC</td><td>3</td><td>38</td><td>ISO GND</td></tr><tr><td>NC</td><td>4</td><td>37</td><td>NC</td></tr><tr><td>5V</td><td>5</td><td>36</td><td>RS232 OUT1</td></tr><tr><td>NC</td><td>6</td><td>35</td><td>RS232 OUT2</td></tr><tr><td>LOGIC IN2</td><td>7</td><td>34</td><td>RS232 IN1</td></tr><tr><td>LOGIC IN1</td><td>8</td><td>33</td><td>RS232 IN2</td></tr><tr><td>NC</td><td>9</td><td>32</td><td>NC</td></tr><tr><td>GND</td><td>10</td><td>31</td><td>NC</td></tr><tr><td>NC</td><td>11</td><td>30</td><td>NC</td></tr><tr><td>LOGIC OUT2</td><td>12</td><td>29</td><td>NC</td></tr><tr><td>NC</td><td>13</td><td>28</td><td>NC</td></tr><tr><td>NC</td><td>14</td><td>27</td><td>NC</td></tr><tr><td>NC</td><td>15</td><td>26</td><td>NC</td></tr><tr><td>NC</td><td>16</td><td>25</td><td>NC</td></tr><tr><td>NC</td><td>17</td><td>24</td><td>NC</td></tr><tr><td>NC</td><td>18</td><td>23</td><td>NC</td></tr><tr><td>NC</td><td>19</td><td>22</td><td>NC</td></tr><tr><td>NC</td><td>20</td><td>21</td><td>NC</td></tr></table>				LOGIC OUT1	1	40	NC	NC	2	39	NC	NC	3	38	ISO GND	NC	4	37	NC	5V	5	36	RS232 OUT1	NC	6	35	RS232 OUT2	LOGIC IN2	7	34	RS232 IN1	LOGIC IN1	8	33	RS232 IN2	NC	9	32	NC	GND	10	31	NC	NC	11	30	NC	LOGIC OUT2	12	29	NC	NC	13	28	NC	NC	14	27	NC	NC	15	26	NC	NC	16	25	NC	NC	17	24	NC	NC	18	23	NC	NC	19	22	NC	NC	20	21	NC
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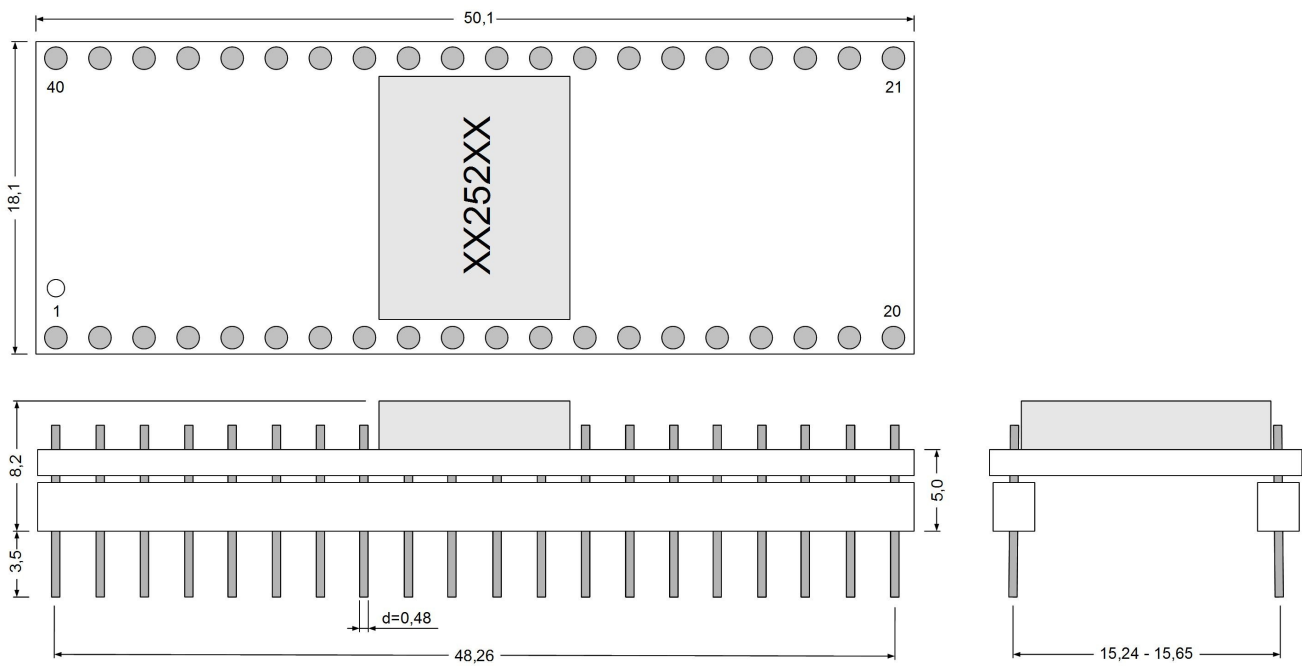
Absolute Maximum Ratings			
Voltages with respect to GND		Voltage with respect to ISO GND	
Supply Voltage, VCC	-0.3V to +6V	RS232 Input Voltage	-25V to +25V
Input Voltage, Logic	-0.3V to (VCC +0.3V)	RS232 Output Voltage	-15V to +15V
Storage Temperature Range	-55°C to +125°C	Operating Temperature Ranges	0°C to +70°C

Electrical Characteristics						
Parameter	Symbol	Conditions	Min	Typ	Max	Units
Supply Input Range	VCC		4.5	5.0	5.5	V
Supply Input Current	ICC	No Load		16	22	mA
RS232						
Driver Output Voltage Swing	VDO	RL = 3k	+5	+5.8		V
Receiver Input Threshold Low	VRIL		0.8	1.3		V
Receiver Input Threshold High	VRIH			1.7	2.5	V
Logic						
Logic Input Threshold Low	VLIL		1.0	1.35		V
Logic Input Threshold High	VLIH			1.75	2.2	V
Logic Output Threshold Low	VLOL				0.4	V
Logic Output Threshold High	VLOH		VCC-0.4			V
ESD RS232 Driver and Receiver Protection			+10			kV

Information in this document is believed to be accurate and reliable. No responsibility is assumed for its use. Schmitt Electronics reserves the right to change the module and the specifications without notice any time.

Electrical Characteristics (continued)						
Parameter	Symbol	Conditions	Min	Typ	Max	Units
Transmission						
Maximum Data Rate SEC252AD		RL = 3k, CL = 2.50nF	38.4			kbps
Isolation						
Rated Isolation Voltage SEC252AD	VISO	1 minute, derived from 1 sec. test	1000			VRMS
Rated Isolation Voltage SEC252AD	VISO	1 second	+ -1500			VRMS
Isolation Voltage SEC252AD	VPEAK	Continuous	200			VPEAK

Modul Dimensions



All dimensions are in mm +- 0.2
Pins on a 2,54 mm pitch