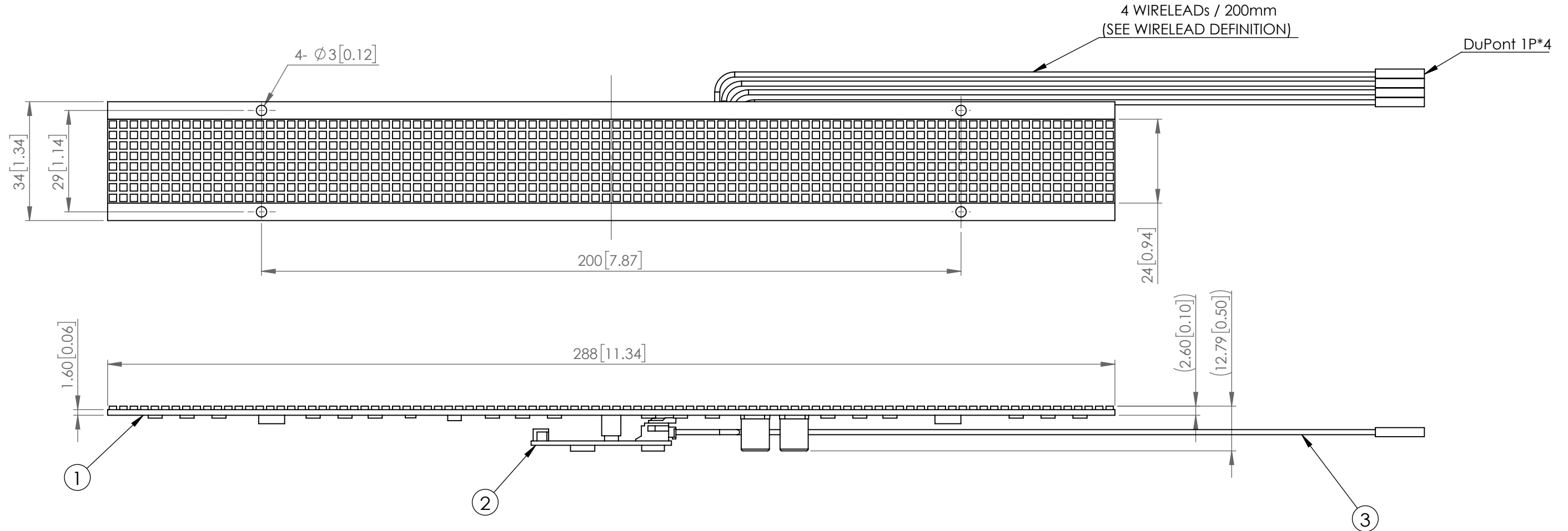


<b>PART NUMBER</b>		LDM-968-P3-UR	<b>REV</b>	A
<b>REV</b>	<b>E.C.N. NUMBER AND REVISION COMMENTS</b>			<b>DATE</b>
A	ECN-Lumex20200014			02.20.20



**MODULE SPECIFICATION**

PARAMETER	SPEC.	UNIT	TEST COND.
PIXEL PITCH	3	mm	--
PIXEL DENSITY	111111	dot/m <sup>2</sup>	--
PIXEL FORM	1R1G1B	--	--
VIEWING ANGLE	X=140 / Y=120	degree	--
DRIVE METHOD	1/8	duty	--
MODULE RESOLUTION	96x8	dot	--
LOAD CURRENT	1040 MAX	mA	5V
POWER CONSUMPTION	5.2 MAX	W	5V
BRIGHTNESS	1000 MIN	cd/m2	--
STORAGE TEMPERATURE	-40 TO +60	°C	--
OPERATING TEMPERATURE	-20 TO +60	°C	--

**BOM**

P/N	ITEM	COMPONENT	QTY
LDM-968-P3-UR	1	LDM-768-1LT-RGB1-PCB	1
	2	LDM-768-1LT-RGB	1
	3	WIRE002	1

**UART CONFIGURATION**

ITEM	SETTING VALUE
BAUD RATE	115200
DATA BIT	8
STOP BIT	1
PARITY BIT	NONE
FLOW CONTROL	NONE

**WIRELEAD DEFINITION**

COLOR	DEFINITION
YELLOW	TX1
WHITE	RX1
RED	5V
BLACK	GND

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= <sup>+DECIMAL PRECISION</sup>/<sub>-0.00</sub> MAX= <sup>+0.00</sup>/<sub>-DECIMAL PRECISION</sub>


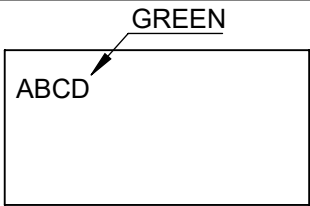
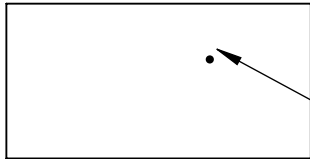
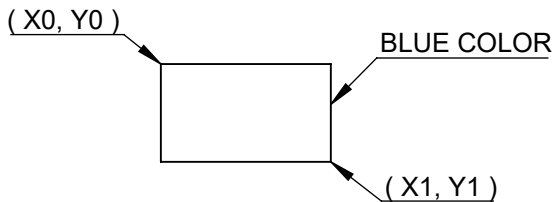
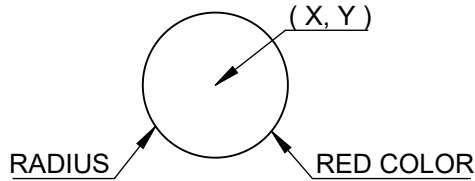
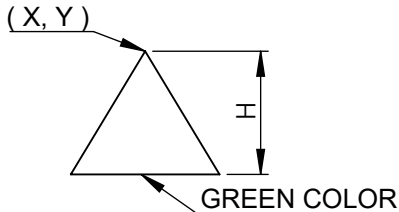
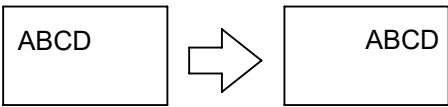
 <p>N. GARY AVE. CAROL STREAM, IL 60188 PHONE : 800-278-5666 FAX : 630-315-2150 WEB : WWW.LUMEX.COM425</p>	<p>96 * 8 PIXEL, PCB WITH 768 PCS RGB LEDS * 1</p> <p><b>**THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE**</b></p> <p><b>CONFIDENTIAL INFORMATION</b></p> <p>THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.</p>	<p>DATE : 2017.11.21</p> <p>PAGE : 1 OF 4</p> <p>SCALE : NTF</p> <p>UNIT : mm [INCH]</p>	<p>DRAWN BY : C.C.</p> <p>CHKD BY : E.C.</p> <p>APRVD BY : G.Y.</p> <p style="text-align: center;">(Pb)</p>
--	--	--	---

DIAGRAM	COMMAND*	EXAMPLE
	Write a 5x7 RGB String	$ate1=(line,column,Color\ 0\sim255^*,String)$ $ate1=(0,0,4,ABCD)$
	Set a Color Pixel	$atee=(X\ position,Y\ position,Color\ 0\sim255^*)$ $atee=(48,6,96) : '96' Red\ color$
	Draw a Rectangle	$at91=(X0\ position,Y0\ position,X1\ position,Y1\ position,Color\ 0\sim255^*)$ $at91=(0,0,55,7,2) : '2' blue\ color$
	Draw a Circle	$at94=(X\ position,Y\ position,Radius,Color\ 0\sim255^*)$ $at94=(48,4,3,64) : '64' red\ color$
	Draw a tip upward Triangle	$at96=(X\ position,Y\ position,Height,Color\ 0\sim255^*)$ $at96=(48,1,3,4) : '4' green\ color$
	Scroll the whole display rightward	$atd5=(shif\ time\ in\ ms)$ $atd5=(20)$


\* Please refer to detail commands/ **COLOR CODE Table** on Lumex website: [www.lumex.com/ezdisplay](http://www.lumex.com/ezdisplay)

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**COLOR CODE Table**

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111

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 <p>N. GARY AVE. CAROL STREAM, IL 60188 PHONE : 800-278-5666 FAX : 630-315-2150 WEB : WWW.LUMEX.COM425</p>	96 * 8 PIXEL, PCB WITH 768 PCS RGB LEDS * 1	DATE : 2017.11.21	DRAWN BY : C.C.	
	**THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE**	PAGE : 3 OF 4	CHKD BY : E.C.	
	CONFIDENTIAL INFORMATION	SCALE : NTF	APRVD BY : G.Y.	
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## ASCII code of 5X7 fonts and 8X16 fonts

Hex	Symbol	Hex	Symbol	Hex	Symbol
0x20		0x40	@	0x60	`
0x21	!	0x41	A	0x61	a
0x22	"	0x42	B	0x62	b
0x23	#	0x43	C	0x63	c
0x24	\$	0x44	D	0x64	d
0x25	%	0x45	E	0x65	e
0x26	&	0x46	F	0x66	f
0x27		0x47	G	0x67	g
0x28	(	0x48	H	0x68	h
0x29	)	0x49	I	0x69	i
0x2a	*	0x4a	J	0x6a	j
0x2b	+	0x4b	K	0x6b	k
0x2c	,	0x4c	L	0x6c	l
0x2d	-	0x4d	M	0x6d	m
0x2e	.	0x4e	N	0x6e	n
0x2f		0x4f	O	0x6f	o
0x30	0	0x50	P	0x70	p
0x31	1	0x51	Q	0x71	q
0x32	2	0x52	R	0x72	r
0x33	3	0x53	S	0x73	s
0x34	4	0x54	T	0x74	t
0x35	5	0x55	U	0x75	u
0x36	6	0x56	V	0x76	v
0x37	7	0x57	W	0x77	w
0x38	8	0x58	X	0x78	x
0x39	9	0x59	Y	0x79	y
0x3a	:	0x5a	Z	0x7a	z
0x3b	;	0x5b	]	0x7a	{
0x3c	<	0x5c	\	0x7a	
0x3d	=	0x5d	[	0x7a	}
0x3e	>	0x5e	^	0x7a	~
0x3f	?	0x5f	_	0x7a	<-


## ASCII code of 16X16 fonts

Hex	Symbol
0x30	0
0x31	1
0x32	2
0x33	3
0x34	4
0x35	5
0x36	6
0x37	7
0x38	8
0x39	9

## No. of 8X16 pattern

No.	Symbol
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

## No. of 32X32 pattern

No.	Symbol
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	°C
11	°F
12	

## No. of 8X8 pattern

No.	Symbol
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

## No. of 16X16 pattern

No.	Symbol
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

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96 \* 8 PIXEL, PCB WITH 768 PCS RGB LEDS \* 1

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DATE : 2017.11.21

DRAWN BY : C.C.

PAGE : 4 OF 4

CHKD BY : E.C.

SCALE : NTF

APRVD BY : G.Y.

UNIT : mm [INCH]



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