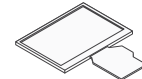




LCD TFTs

- Features:
- 8 and 16 bit digital interfaces • Available with or without controllers
  - Wide viewing angle • Wide operating temperature • Fast response time • High brightness LED backlights

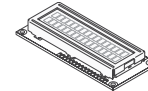


Diagonal Size	Dimensions W x H x D (mm)	Interface	Luminance (cd/m <sup>2</sup> )	Contrast Ratio	Vertical Viewing Angle °	Horizontal Viewing Angle °	Digi-Key Part No.	Price Each
1.8	34.0 x 47.0 x 2.4	8/16 Bit	2800	250	35	45	NHD-1.8-128160YF-CTXI#-ND	11.06
1.8	34.0 x 47.0 x 2.65	8 Bit	120	250	15	45	NHD-1.8-128160ZF-CTXL#-ND	16.11
2.4	42.72 x 60.26 x 2.45	8/16 Bit	350	250	35	45	NHD-2.4-240320SF-CTXI#-ND	24.78
2.4	42.72 x 60.26 x 3.60	8/16 Bit	350	250	35	45	NHD-2.4-240320SF-CTXI#-T-ND†	27.26
2.4	42.72 x 60.26 x 3.8	16 Bit Digital	3200	250	35	45	NHD-2.4-240320YF-CTXI#-T-1-ND†	29.33
3.5	76.90 x 63.90 x 2.80	24 Bit	300	350	40	60	NHD-3.5-320240MF-ATXL#-1-ND	28.09
3.5	76.90 x 63.90 x 2.80	24 Bit	300	350	40	60	NHD-3.5-320240MF-ATXL#-T-1-ND†	30.57
4.3	105.5 x 67.2 x 4.95	24 Bit	280	500	60	80	NHD-4.3-480272YF-ATXI#-T-ND†	66.01
4.3	105.5 x 67.2 x 3.80	24 Bit	380	400	50	90	NHD-4.3-480272MF-ATXI#-1-ND	37.17
4.3	105.5 x 67.2 x 4.05	24 Bit	380	400	50	90	NHD-4.3-480272MF-ATXI#-T-1-ND†	40.48
5.7	149.0 x 109.0 x 7.0	8-Bit	250	400	50	60	NHD-5.7-320240WF-CTXI#-1-ND	86.66

† With Touch Panel

LCD Character Modules

- Features:
- 5 x 8 character format • Different backlight color options • 8-bit or 4-bit interface • STN or FSTN, 12:00 or 6:00 viewing angle • 3V Power Supply



Format	LCD Mode	Type	Module Size W x H (mm)	Viewing Area W x H (mm)	Character Size W x H (mm)	Operating Temperature °C	Digi-Key Part No.	Price Each
<b>Transflective</b>								
2 x 16	STN-Gray / YG	Serial	80.0 x 44.0	64.5 x 16.4	3.00 x 5.23	-20 ~ 70	NHD-0216B3Z-FL-GBW-ND	16.48
2 x 16	STN-Gray / YG	Serial	80.0 x 36.0	64.5 x 16.4	3.00 x 5.23	-20 ~ 70	NHD-0216K3Z-FL-GBW-ND	16.32
2 x 16	STN-Gray / YG	Serial	122.0 x 44.0	99.0 x 24.0	5.2 x 9.55	-20 ~ 70	NHD-0216S3Z-FL-GBW-ND	18.42
2 x 20	STN-Gray / YG	Serial	116.0 x 37.0	83.0 x 18.6	3.2 x 5.55	-20 ~ 70	NHD-0220D3Z-FL-GBW-ND	18.34
4 x 20	STN-Gray / YG	Serial	98.0 x 60.0	76.0 x 25.2	2.95 x 4.75	-20 ~ 70	NHD-0420D3Z-FL-GBW-ND	20.57
1 x 8	STN-Gray / White	Character	60.7 x 33.85	51.2 x 14.7	5.02 x 7.28	-20 ~ 70	NHD-0108HZ-FSW-GBW-ND	7.02
1 x 8	STN-Gray / White	Character	69.0 x 27.0	45.2 x 13.8	4.2 x 7.71	-20 ~ 70	NHD-0108CZ-FSW-GBW-3V3-ND	7.23
1 x 8	STN-YG / YG	Character	84.0 x 44.0	64.5 x 16.4	6.45 x 10.75	-20 ~ 70	NHD-0108FZ-FL-YBW-3V3-ND	7.43
2 x 8	STN-Gray / YG	Character	40.0 x 35.4	30.4 x 13.9	2.95 x 4.75	-20 ~ 70	NHD-0208AZ-FL-GBW-ND	7.89
2 x 8	STN-YG / YG	Character	40.0 x 35.4	30.4 x 13.9	2.95 x 4.75	-20 ~ 70	NHD-0208AZ-FL-YBW-ND	7.85
2 x 8	STN-Gray / White	Character	40.0 x 35.4	30.4 x 13.9	2.95 x 4.75	-20 ~ 70	NHD-0208AZ-FSW-GBW-3V3-ND	8.10
2 x 8	STN-Gray / White	Character	58.0 x 32.0	38.0 x 16.0	2.96 x 5.56	-20 ~ 70	NHD-0208BZ-FSW-GBW-3V3-ND	8.10
2 x 8	STN-Gray / YG	Character	58.0 x 32.0	38.0 x 16.0	2.96 x 5.56	-20 ~ 70	NHD-0208BZ-FL-GBW-ND	8.14
2 x 8	STN-YG / YG	Character	58.0 x 32.0	38.0 x 16.0	2.96 x 5.56	-20 ~ 70	NHD-0208BZ-FL-YBW-ND	8.05
2 x 12	STN-Gray / YG	Character	55.7 x 32.0	46.0 x 14.5	2.65 x 5.50	-20 ~ 70	NHD-0212WH-AYGH-JT#-ND	7.85
2 x 16	STN-YG / YG	Character	84.0 x 44.0	64.5 x 16.4	3.00 x 5.23	-20 ~ 70	NHD-0216BZ-FL-YBW-ND	8.26
2 x 16	FSTN+ / White	Character	65.5 x 36.7	54.0 x 14.4	2.55 x 4.99	-20 ~ 70	NHD-0216HZ-FSW-FBW-3V3C-ND	9.58
2 x 16	STN-YG / YG	Character	80.0 x 36.0	64.5 x 16.4	3.00 x 5.23	-20 ~ 70	NHD-0216K1Z-FL-YBW-ND	8.67
2 x 16	FSTN+ / RGB	Character	80.0 x 36.0	64.5 x 16.4	3.00 x 5.23	-20 ~ 70	NHD-0216K1Z-FS(RGB)-FBW-REV1-ND	11.98
2 x 16	STN-YG / YG	Character	122.0 x 44.0	99.0 x 24.0	5.2 x 9.55	-20 ~ 70	NHD-0216SZ-FL-GBW-ND	16.94
2 x 16	STN-Gray / White	Character	80.0 x 36.0	64.5 x 13.8	3.00 x 5.23	-20 ~ 70	NHD-0216XZ-FSW-GBW-ND	9.09
2 x 20	STN-YG / YG	Character	116.0 x 37.0	83.0 x 18.6	3.2 x 5.95	-20 ~ 70	NHD-0220DZ-FL-YBW-ND	14.87
2 x 20	STN-Gray / White	Character	65.0 x 20.0	46.0 x 10.8	1.85 x 3.23	-20 ~ 70	NHD-0220FZ-FSW-GBW-P-3V3-ND	9.00
2 x 20	STN-Gray / Blue	Character	182.0 x 60.0	147.0 x 35.2	5.9 x 12.7	-20 ~ 70	NHD-0220JZ-FSB-GBW-ND	24.45
2 x 20	STN-Gray / Green	Character	182.0 x 60.0	147.0 x 35.2	5.9 x 12.7	-20 ~ 70	NHD-0220JZ-FSPG-GBW-ND	24.45
2 x 20	STN-Gray / White	Character	146.0 x 43.0	123.0 x 22.0	4.84 x 9.22	-20 ~ 70	NHD-0220WH-MTGH-JT#-ND	20.03
2 x 24	STN-Gray / White	Character	102.5 x 36.0	94.5 x 18.0	3.20 x 5.55	-20 ~ 70	NHD-0224AZ-FSW-GBW-ND	12.39
2 x 24	STN-Gray / YG	Character	116.0 x 29.4	83.0 x 18.6	2.70 x 5.55	-20 ~ 70	NHD-0224BZ-FL-GBW-ND	11.23
2 x 24	FSTN+ YG / White	Character	116.0 x 37.0	83.0 x 18.6	2.70 x 5.55	-20 ~ 70	NHD-0224BZ1-FSW-FBW-ND	12.39
4 x 20	STN-Gray / White	Character	77.0 x 47.0	60.0 x 22.0	2.30 x 4.03	-20 ~ 70	NHD-0420AZ-FSW-GBW-3V3-ND	15.78
4 x 20	STN-YG / YG	Character	98.0 x 60.0	76.0 x 25.2	2.95 x 4.75	-20 ~ 70	NHD-0420DZ-FL-YBW-3V3-ND	18.13
4 x 20	STN-Gray / White	Character	146.0 x 62.5	123.0 x 42.5	4.84 x 9.22	-20 ~ 70	NHD-0420E2Z-FSW-GBW-ND	23.30
4 x 20	STN-Gray / YG	Character	79.0 x 36.0	60.0 x 28.0	2.35 x 5.15	-20 ~ 70	NHD-0420H1Z-FL-GBW-3V3-ND	14.62
4 x 40	FSTN+ / White	Character	190.0 x 54.0	147.0 x 29.5	2.78 x 4.89	-20 ~ 70	NHD-0440WH-ATFH-JT#-ND	23.63
2 x 16	STN-Gray / No B/L	COG	49.7 x 25.3	45.7 x 14.3	2.21 x 4.68	-20 ~ 70	NHD-C0216AZ-FN-GBW-ND	7.53
2 x 16	STN-Gray / White	COG	54.7 x 25.3	45.7 x 14.3	2.21 x 4.68	-20 ~ 70	NHD-C0216AZ-FSW-GBW-ND	8.35
2 x 16	FSTN+ / No B/L	COG	49.7 x 25.3	45.7 x 14.3	2.21 x 4.68	-20 ~ 70	NHD-C0216CIZ-FN-FBW-3V-ND	7.52
2 x 16	FSTN+ / White	COG	56.0 x 25.3	45.7 x 14.3	2.21 x 4.68	-20 ~ 70	NHD-C0216CIZ-FSW-FBW-3V3-ND	8.47
2 x 16	STN-Gray / No B/L	COG	56.0 x 25.3	45.7 x 14.3	2.21 x 4.68	-20 ~ 70	NHD-C0216CU-FN-GBW-3V-ND	7.43
2 x 16	STN-Gray / White	COG	56.0 x 25.3	45.7 x 14.3	2.21 x 4.68	-20 ~ 70	NHD-C0216CU-FSW-GBW-3V3-ND	8.38
2 x 20	FSTN+ / White	COG	74.5 x 25.0	61.0 x 15.1	2.45 x 5.55	0 ~ 50	NHD-C0220AU-FSW-FTS-ND	8.47
2 x 20	FSTN+ / White	COG	74.5 x 25.0	61.0 x 15.1	2.45 x 5.55	-20 ~ 70	NHD-C0220AZ-FSW-FTW-ND	8.43
<b>Transmissive</b>								
2 x 16	FSTN- / RGB	Character	80.0 x 36.0	64.5 x 16.4	3.00 x 5.23	-20 ~ 70	NHD-0216K1Z-NS(RGB)-FBW-ND	12.18
2 x 16	FSTN- / RGB	Character	80.0 x 36.0	64.5 x 16.4	3.00 x 5.23	-20 ~ 70	NHD-0216K1Z-NS(RGB)-FBW-REV1-ND	12.18
2 x 16	STN-Blue / White	Character	80.0 x 36.0	64.5 x 16.4	3.00 x 5.23	-20 ~ 70	NHD-0216K1Z-NSW-BBW-L-ND	9.67
2 x 16	STN-Blue / White	Serial	80.0 x 36.0	64.5 x 16.4	3.00 x 5.23	-20 ~ 70	NHD-0216K3Z-NSW-BBW-ND	17.14
2 x 16	STN-Blue / White	Character	126.0 x 44.0	99.5 x 24.5	4.84 x 8.06	-20 ~ 70	NHD-0216SZ-NSW-BBW-ND	17.93
2 x 20	STN-Blue / White	Character	116.0 x 37.0	83.0 x 18.6	3.2 x 5.95	-20 ~ 70	NHD-0220DZ-NSW-BBW-ND	15.94
2 x 20	STN-Blue / White	Serial	116.0 x 37.0	83.0 x 18.6	3.2 x 5.55	-20 ~ 70	NHD-0220D3Z-NSW-BBW-ND	19.17
2 x 24	FSTN- / White	Character	118.0 x 36.0	94.5 x 16.0	3.20 x 5.55	-20 ~ 70	NHD-0224WH-ATDI-JT#-ND	19.78
4 x 20	STN-Blue / White	Character	146.0 x 62.5	123 x 42.5	4.84 x 9.22	-20 ~ 70	NHD-0420E2Z-NSW-BBW-ND	23.30
4 x 40	STN-Blue / White	Character	190.0 x 54.0	147.0 x 29.5	2.78 x 4.89	-20 ~ 70	NHD-0440WH-ATMI-JT#-ND	23.21
<b>Reflective</b>								
1 x 8	STN-YG / No B/L	Character	53.0 x 24.2	35.0 x 12.6	3.4 x 7.1	-20 ~ 70	NHD-0108BZ-RN-YBW-ND	6.24
1 x 8	STN-YG / No B/L	Character	53.0 x 24.2	35.0 x 12.6	3.4 x 7.1	-20 ~ 70	NHD-0108BZ-RN-YBW-3V-ND	6.24
2 x 8	STN-YG / No B/L	Character	40.0 x 35.4	30.4 x 13.9	2.95 x 4.75	-20 ~ 70	NHD-0208AZ-RN-YBW-ND	6.82
2 x 8	STN-YG / No B/L	Character	40.0 x 35.4	30.4 x 13.9	2.95 x 4.75	-20 ~ 70	NHD-0208AZ-RN-YBW-3V-ND	6.82
2 x 8	STN-Gray / No B/L	Character	40.0 x 35.4	30.4 x 13.9	2.95 x 4.75	-20 ~ 70	NHD-0208AZ-RN-GBW-ND	6.86
2 x 8	STN-Gray / No B/L	Character	58.0 x 32.0	38.0 x 16.0	5.56 x 2.96	-20 ~ 70	NHD-0208BZ-RN-GBW-ND	6.90
2 x 8	STN-YG / No B/L	Character	58.0 x 32.0	38.0 x 16.0	5.56 x 2.96	-20 ~ 70	NHD-0208BZ-RN-YBW-ND	6.86
2 x 8	STN-YG / No B/L	Character	58.0 x 32.0	38.0 x 16.0	5.56 x 2.96	-20 ~ 70	NHD-0208BZ-RN-YBW-3V-ND	6.86
2 x 16	STN-YG / No B/L	Character	84.0 x 44.0	64.5 x 16.4	3.00 x 5.23	-20 ~ 70	NHD-0216BZ-RN-YBW-ND	7.23
4 x 40	FSTN+ / No B/L	Character	190.0 x 54.0	147.0 x 29.5	2.78 x 4.89	-20 ~ 70	NHD-0440AZ-RN-FBW-ND	19.83



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