



General Display Solution TP Product Roadmap

AU Optronics GDBU
2019. Q1

Mission of General Display Business Unit



Total Solution Provider



Flexible Support



Product Longevity

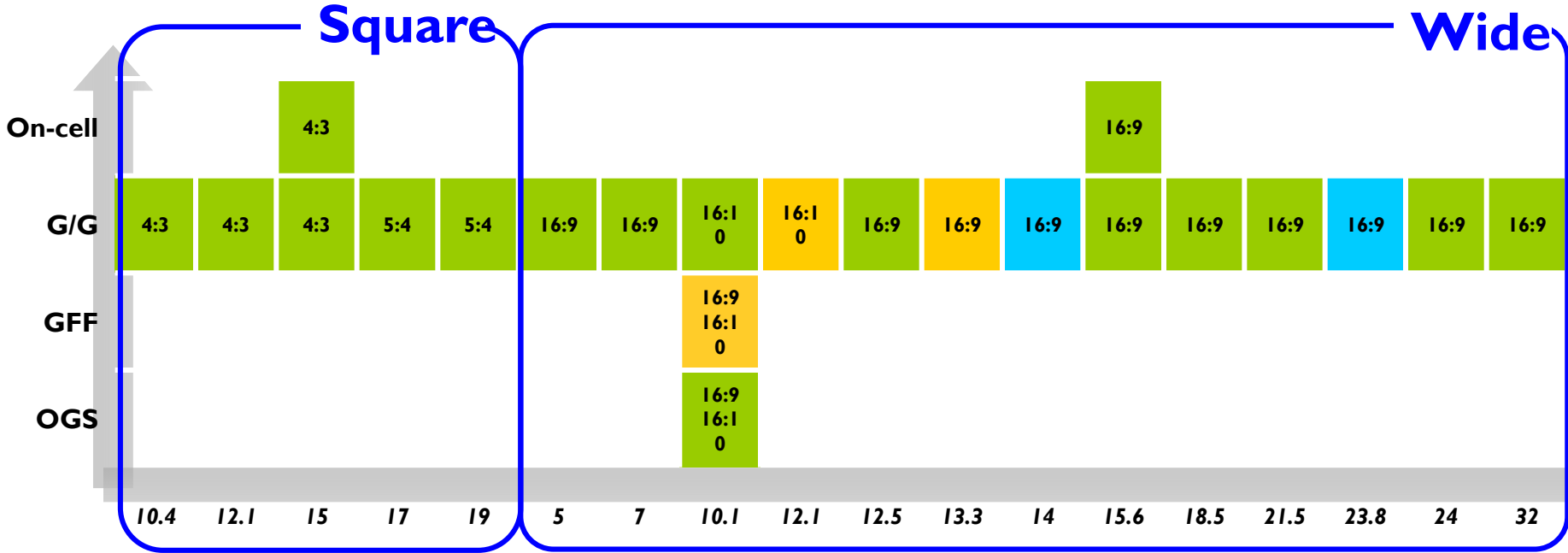


Customized Design

General Display P-Cap Touch Panel Line Up



MP Developing Planning



GD Touch Panel Performance



Glove
Max. 3mm

CS Test
10V 2pts
IEC61004-4-6
150KHz~80MHz

Cover Lens
Max. 3mm

AUO

Palm Rejection
Max. 10 x10 cm²



Stylus
Passive Pen, 6mm

Water Proof
•Pass Rain Test
•10% Salt Water



AUO Touch Panel Structure Comparison

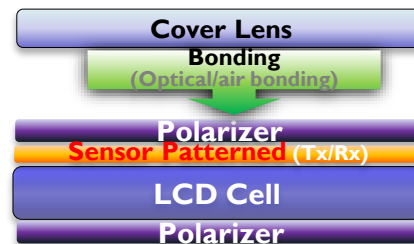
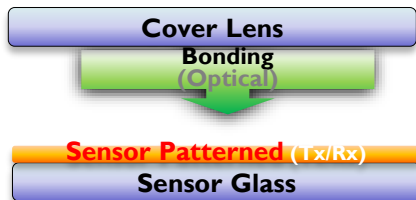
Out-Cell Touch

On-Cell Touch

Glass – Glass: G/G

One Glass Solution: OGS

oTP



Slim	○	◎	◎
Strength	◎	○	◎
Cover Lens Design Flexibility	◎	○	◎

Cover Lens Design and Manufacturing Capability



- **Glass Treatment**
 - Anti-Reflection



- Anti-Glare



Normal glass (no AG) AG glass (with AG)

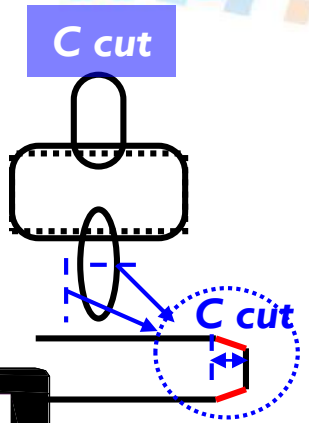
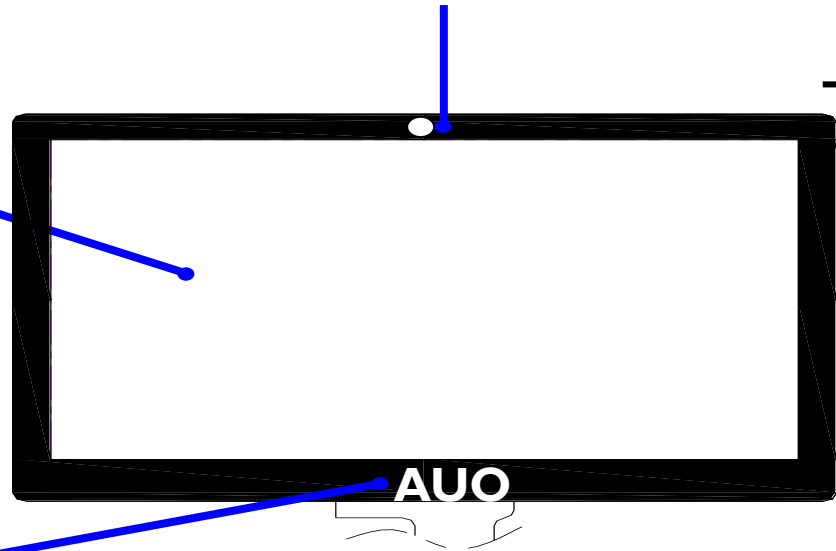
- Anti-Smudge



- **Artwork Treatment**
 - Logo / Icon / BM...



- **Glass Surface Treatment**
 - Cutting / Grinding / Drilling...



AUO Touch Panel Manufacturing Process



Front-end Process

Sensor Glass

Sensor Process



Back-end Process

Cutting / Bonding Process



Lamination Process
 $CL^* + SG^* \rightarrow$ Touch Panel

Cover Lens

Cover Lens

Bonding
(Optical)

Sensor Patterned (Tx/Rx)

Sensor Glass

Note: CL^* =Cover Lens

SG^* =Sensor Glass

AUO As A Total Solution Provider



Front-end Process
(in Taiwan)

Back-end Process
(in Suzhou, China)

Flexible Business
Mode

Touch Sensor

Touch Module



LCD Cell

Display Module

Total solution

One Site Solution

Touch



Display + Touch



Display



GD Touch Panel Product Roadmap

5"/ 7" Models

MP

Developing

Planning

MP

2019 H1

2019 H2

5"

(16:9)

G050TAN01

Jun.18

I050FGB01.1

G/G (0.7t + 0.55t)

ILITEK, 41 ch

Android

AS

7"

(16:9)

A070VW08

G070VW01

G070VVN

G070VTN

Jun.18

I070FGB02.0

G/G (1.8t + 0.7t)

ILITEK, 60 ch

Linux

AS

10.1" / 10.4" Models

MP

Developing

Planning

MP

Jul.15

110IFGT14.0

OGS (1.1t)
EETI, 72 ch
Android

AS

10.1"

(16:9)

GI01STN01

2019 H1

2019 H2

10.1"

(16:10)

GI01EVN

BI01UAN

GI01UAN

Q1.19

110IFGT16.4

OGS (1.1t)
EETI, 75 ch
Android

AS

10.4"

(4:3)

AI04SN03

GI04VN01

GI04STN01

GI04SN03

GI04XVN01

Mar.17

1104FGB01.2

G/G (1.8t + 0.7t)
EETI, 76 ch
Windows 8

AS

AS Anti-Smudge

12.1"/12.5" Models

MP

Developing

Planning

MP

2019 H1

2019 H2

12.1"

(4:3)

G121SN01
G121STN01
G121XN01
G121XTN01

Jun.16

I121FGB01.1

G/G (1.8t + 0.7t)
 EETI, 92 ch
 Android

AS

12.1"

(16:10)

G121EAN01

Q2.19

I121FGB02.1

G/G (1.8t + 0.7t)
 EETI, 92 ch
 Android

AS

12.5"

(16:9)

B125XTN03

Jun.16

I125FGB01.2

G/G (1.1t + 0.7t)
 EETI, 91 ch
 Android

AS

13.3" / 14" Models

MP

Developing

Planning

MP

2019 H1

2019 H2

13.3"
(16:9)

- GI33XTN01
- GI33HAN01
- GI33HAN02.0

Q2.19

I133FGB01.0
GIG (1.1t + 0.7t)
EETI, 116 ch
Windows 8
AS

14"
(16:9)

- GI40XTN01
- GI40HAN01

I140FGB0x.x
GIG (1.1t + 0.7t)
EETI, 113 ch
Windows 8

AS Anti-Smudge

15" / 15.6" Models

MP

Developing

Planning

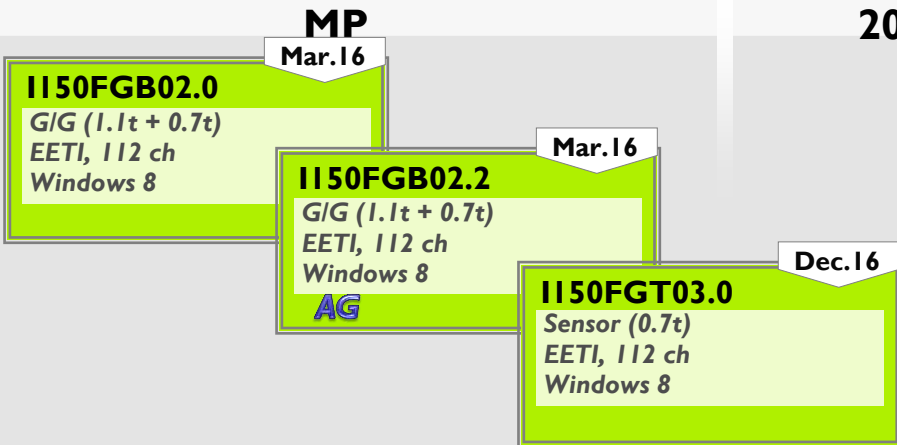
2019 H1

2019 H2

15"

(4:3)

- GI50XTN03
- GI50XTN06
- GI50XVN01
- GI50XAN01
- GI50XAN02



15.6"

(16:9)

- GI56XW01
- GI56XTN01
- GI56HTN02
- GI56HAN01
- GI56HAN02



17"/ 19" Models

MP

Developing

Planning

MP

2019 H1

2019 H2

17"

(5:4)

- GI70EG01.1
- GI70ETN01.0
- GI70ETN02

Jan.17

I170FGB01.0

G/G (1.8t + 0.7t)
EETI, 102 ch
Windows 8

19"

(5:4)

- GI90EG01
- GI90EG02
- GI90ETN01
- GI90EAN01

Mar.18

I190FGB02.1

G/G (1.8t + 0.7t)
EETI, 101 ch
Windows 8

AS

18.5"/21.5" Models

MP

Developing

Planning

MP

2019 H1

2019 H2

18.5"

(16:9)

G185HAN01

G185XW01

G185XTN01

Q1.19

I185FGB01.2

G/G (1.8t + 0.7t)

EETI, 127 ch

Windows 8

AG

Q1.19

I185FGB01.3

G/G (1.8t + 0.7t)

EETI, 127 ch

Windows 8

AG

Dec.15

I215FGB01.0

G/G (1.1t + 0.7t)

EETI, 125 ch

Windows 8

21.5"

(16:9)

G215HVN01

G215HAN01

23.8"/24"/32" Models

MP

Developing

Planning

MP

2019 H1

2019 H2

23.8"
(16:9)

G238HAN01

Nov.18

I240FGB02.1

G/G (2.9t + 0.7t)
ILITEK, 152 ch
Windows 8

AS

Apr.16

I319FGB01.0

G/G (1.8t + 0.7t)
EETI, 178 ch
Windows 8

I238FGB01.x

G/G (2.9t + 0.7t)
ILITEK, 152 ch
Windows 8

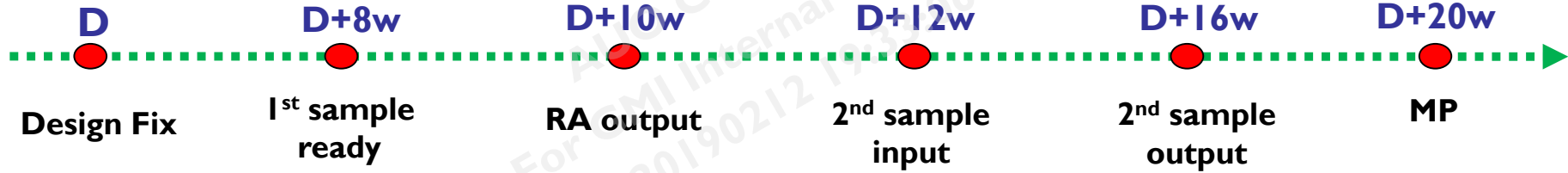
32"
(16:9)

New Model Summary



	Model	MP Schedule
New Model	- 1101FGT16.4	~ 2019/Q1
	- 1121FGB02.1	~ 2019/Q2
	- 1133FGB01.0	~ 2019/Q2
	- 1156FGB01.3	~ 2019/Q4
	- 1185FGB01.2	~ 2019/Q1
	- 1185FGB01.3	~ 2019/Q1

Sample Lead-time Schedule



- Lead-time for touch panel only.
- 2 weeks more is needed for touch & LCD lamination



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